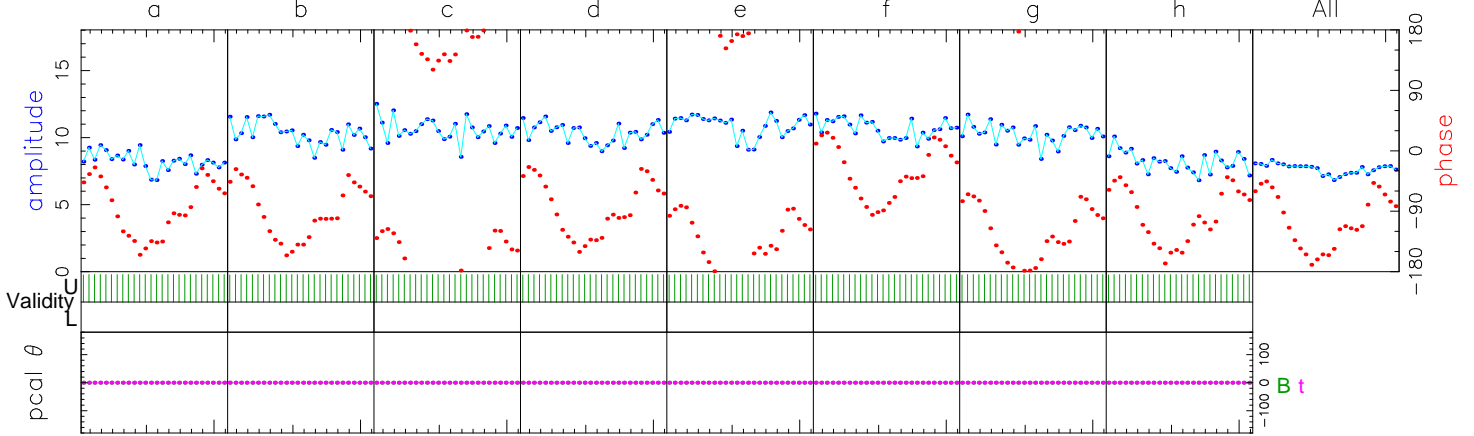


Fringe quality 3

SNR 132.5
Int time 64.957
Amp 6.013
Phase -101.9
PFD 0.0e+00
Delays (us)
SBD 0.002250
MBD 0.000874
Fringe rate (Hz)
-0.009251
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



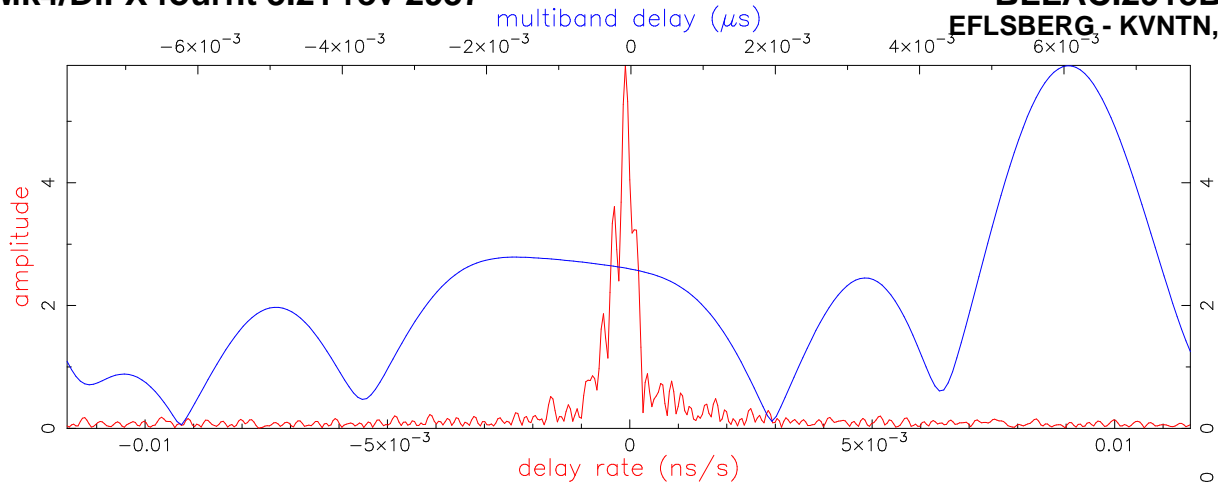
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.9	-88.8	-171.4	-83.0	-137.0	-29.3	-121.6	-93.6	Phase	-101.9
	6.3	8.0	8.2	7.9	8.5	8.3	8.0	6.3	Ampl.	7.7
	256.4	257.5	258.3	258.3	258.5	258.2	257.8	256.8	Sbd box	257.6
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
t	0	0	0	0	0	0	0	0	PC freqs	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	6.62284154130E+03	Apriori delay (usec)	6.62284066710E+03	Resid mbdelay (usec)	8.74195E-04	+/-	8.2E-06
Sband delay (usec)	6.62284291735E+03	Apriori clock (usec)	-3.1517855E+01	Resid sbdelay (usec)	2.25025E-03	+/-	6.5E-05
Phase delay (usec)	6.62284066382E+03	Apriori clockrate (us/s)	1.2400000E-07	Resid phdelay (usec)	-3.28702E-06	+/-	2.8E-08
Delay rate (us/s)	1.44225332965E+00	Apriori rate (us/s)	1.44225343705E+00	Resid rate (us/s)	-1.07398E-07	+/-	7.4E-10
Total phase (deg)	-78.8	Apriori accel (us/s/s)	-1.84143428634E-05	Resid phase (deg)	-101.9	+/-	0.9

ph/seg (deg)	40.0	2.2	Search (512X32)	5.828	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	sb window (us)	-1.000	1.000
amp/seg (%)	28.3	3.8	Interp.	0.000	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	mb window (us)	-0.008	0.008
ph/frq (deg)	45.9	1.2	Inc. seg. avg.	7.672	Sample rate(MISamp/s): 128	nlags: 256	dr window (ns/s)	-0.012	0.012
amp/frq (%)	31.0	2.1	Inc. frq. avg.	7.688	Data rate(Mb/s): 2048	t_cohere infinite	ion window (TEC)	0.00	0.00

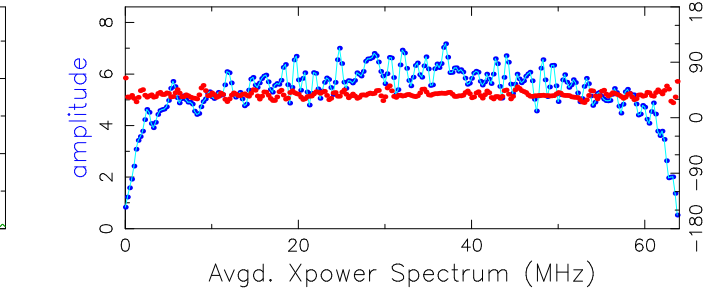
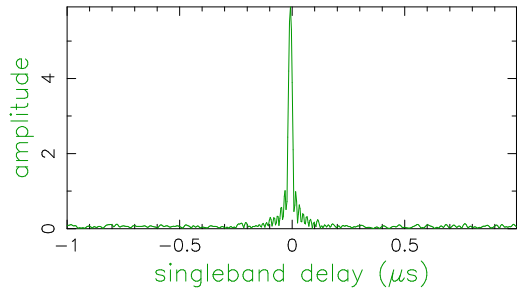
B: az 86.2 el 57.5 pa -59.0 t: az 302.2 el 33.3 pa 73.5 u,v (fr/asec) -11217.280 306.867 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bt..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bt.W.35.2918BR



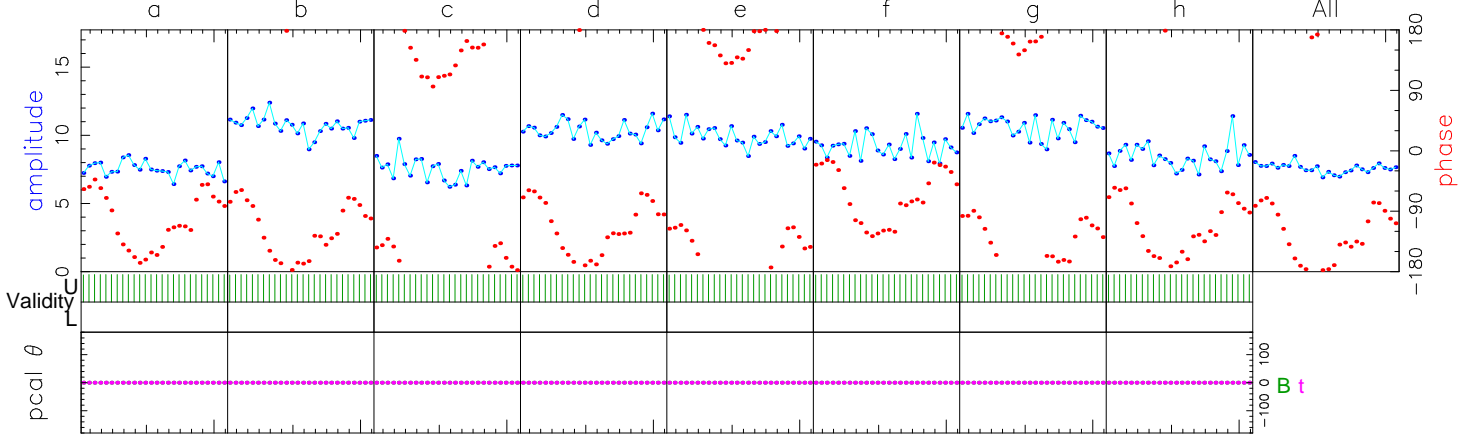
Fringe quality 3

SNR 130.3
Int time 64.957
Amp 5.911
Phase -126.6
PFD 0.0e+00
Delays (us)
SBD -0.008176
MBD 0.006053
Fringe rate (Hz)
-0.009139
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



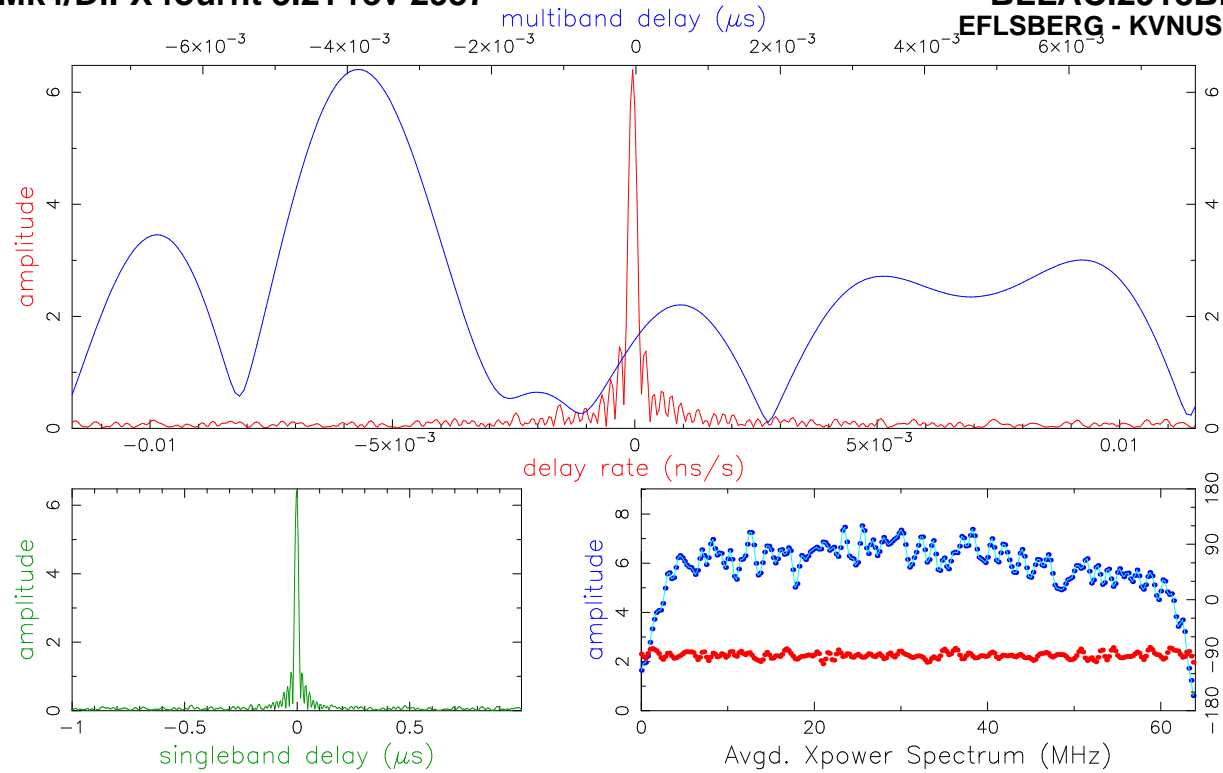
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230414
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-103.8	-117.6	167.0	-114.0	-166.4	-67.5	-147.7	-112.0	Phase	-126.6
	5.8	8.4	5.7	8.1	7.6	7.1	8.1	6.5	Ampl.	7.2
	253.1	255.0	255.7	255.5	255.9	255.6	255.5	254.1	Sbd box	254.9
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
t	0	0	0	0	0	0	0	0	PC freqs	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:t	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
t	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.62283109527E+03		Apriori delay (usec)		6.62284066710E+03		Resid mbdelay (usec)		6.05316E-03	+/- 8.3E-06
Sband delay (usec)	6.62283249060E+03		Apriori clock (usec)		-3.1517855E+01		Resid sbdelay (usec)		-8.17650E-03	+/- 6.6E-05
Phase delay (usec)	6.62284066302E+03		Apriori clockrate (us/s)		1.2400000E-07		Resid phdelay (usec)		-4.08167E-06	+/- 2.8E-08
Delay rate (us/s)	1.44225333095E+00		Apriori rate (us/s)		1.44225343705E+00		Resid rate (us/s)		-1.06098E-07	+/- 7.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.84143428634E-05		Resid phase (deg)		-126.6	+/- 0.9

ph/seg (deg) 39.4 2.2 Theor. Amplitude 5.911 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.0 3.9 Search (512X32) 5.701 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.6 1.2 Inc. seg. avg. 7.587 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.2 2.2 Inc. frq. avg. 7.178 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 86.2 el 57.5 pa -59.0 t: az 302.2 el 33.3 pa 73.5 u,v (fr/asec) -11217.280 306.867 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bt..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bt.W.42.2918BR

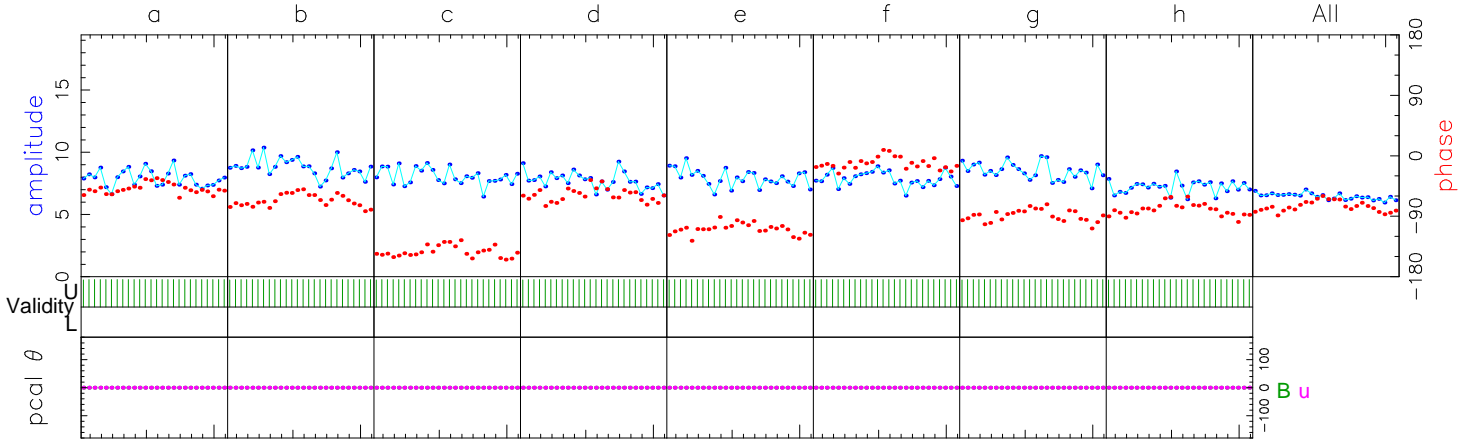


Fringe quality 6

SNR 142.8
Int time 64.957
Amp 6.480
Phase -75.5
PFD 0.0e+00
Delays (us)
SBD -0.002495
MBD -0.003811
Fringe rate (Hz)
-0.005103
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

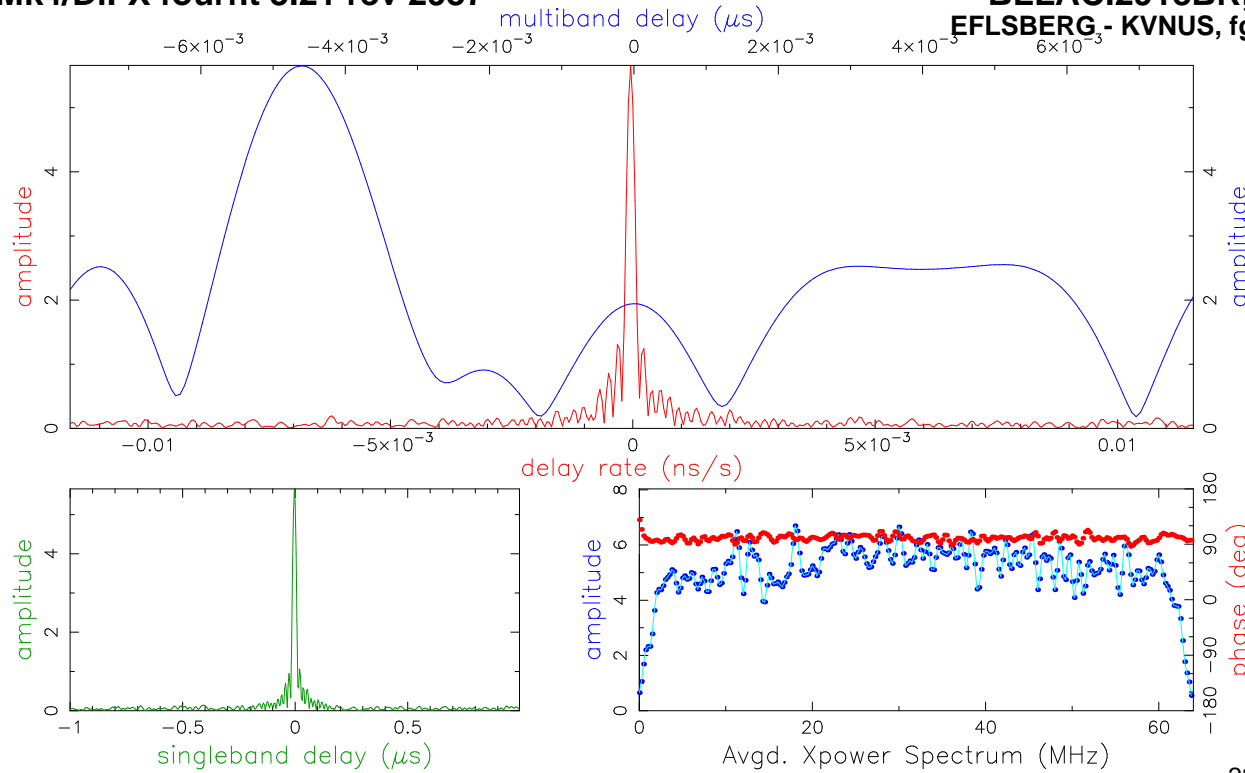
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.7	-66.2	-142.5	-58.2	-109.0	-11.2	-88.8	-80.1	Phase	-75.5
	7.9	8.7	8.0	7.6	7.9	7.8	8.4	7.1	Ampl.	7.9
	255.2	256.3	257.0	257.2	257.2	257.0	256.7	255.5	Sbd box	256.4
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	6.82059645223E+03		Apriori delay (usec)		6.82060026302E+03		Resid mbdelay (usec)		-3.81079E-03	+/- 7.6E-06
Sband delay (usec)	6.82059776777E+03		Apriori clock (usec)		-6.8578583E+01		Resid sbdelay (usec)		-2.49525E-03	+/- 6.0E-05
Phase delay (usec)	6.82060026058E+03		Apriori clockrate (us/s)		-2.1862000E-06		Resid phdelay (usec)		-2.43400E-06	+/- 2.6E-08
Delay rate (us/s)	1.42902995503E+00		Apriori rate (us/s)		1.42903001427E+00		Resid rate (us/s)		-5.92437E-08	+/- 6.9E-10
Total phase (deg)	160.8		Apriori accel (us/s/s)		-2.21299390397E-05		Resid phase (deg)		-75.5	+/- 0.8

ph/seg (deg) 7.6 2.0 Theor. Amplitude 6.480 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 3.8 3.6 Search (512X32) 6.331 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 42.9 1.1 Inc. seg. avg. 6.458 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 23.3 2.0 Inc. frq. avg. 7.920 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 86.2 el 57.5 pa -59.0 u: az 301.8 el 32.6 pa 69.0 u,v (fr/asec) -11123.301 -173.184 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bu..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bu.W.17.2918BR

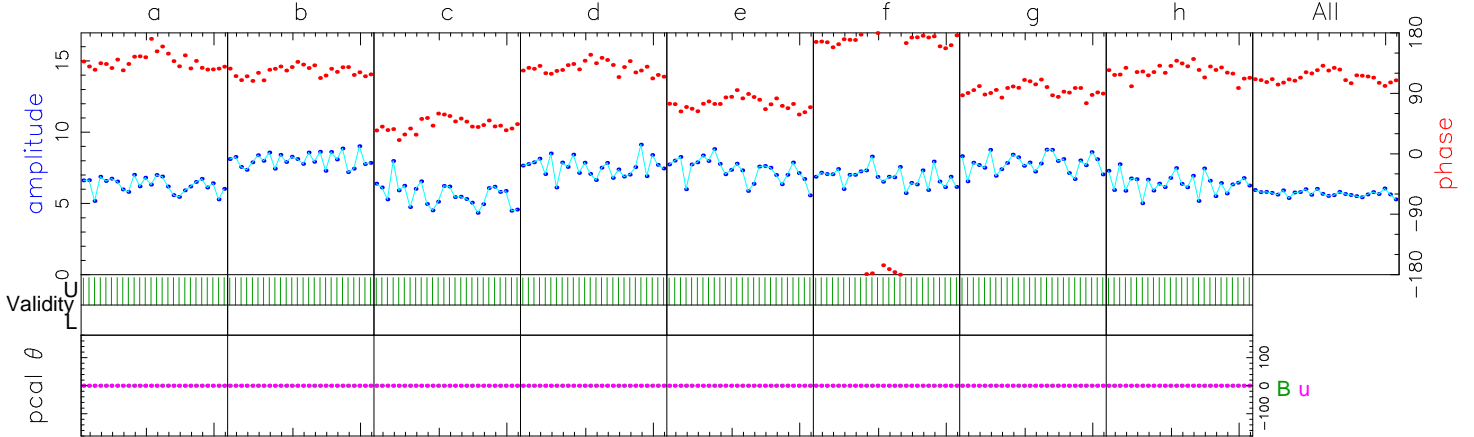


Fringe quality 6

SNR 124.7
Int time 64.957
Amp 5.658
Phase 113.5
PFD 0.0e+00
Delays (us)
SBD -0.003413
MBD -0.004592
Fringe rate (Hz)
-0.005170
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230412
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

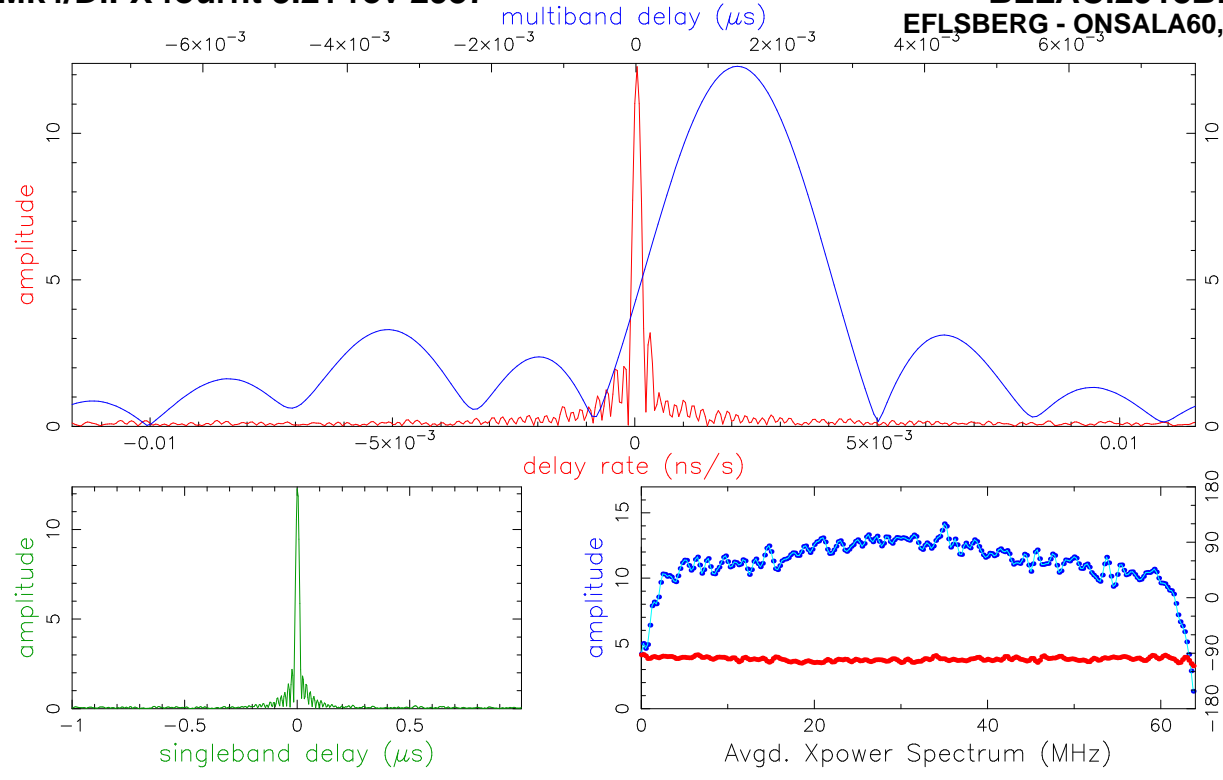
Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0		
B	0	0	0	0	0	0	0	0		
u	0	0	0	0	0	0	0	0		
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
u	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)	137.4	122.3	42.3	127.6	74.4	172.7	94.3	122.4		
Sband delay (usec)	6.2	8.0	5.5	7.5	7.3	6.8	7.7	6.3		
Phase delay (usec)	254.4	256.2	256.9	256.9	257.1	256.9	256.8	255.3		
Delay rate (us/s)		1.42902995426E+00			1.42903001427E+00					
Total phase (deg)			349.8							
Apriori delay (usec)					6.82060026302E+03					
Apriori clock (usec)					-6.8578583E+01					
Apriori clockrate (us/s)					-2.1862000E-06					
Apriori rate (us/s)					1.42903001427E+00					
Apriori accel (us/s/s)					-2.21299390397E-05					
Resid mbdelay (usec)										
Resid sbdelay (usec)										
Resid phdelay (usec)										
Resid rate (us/s)										
Resid phase (deg)									113.5	+/- 0.9
Pcal mode:	MANUAL, MANUAL		PC period (AP's) 5, 5							
Pcal rate:	0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000		1.000			
Bits/sample:	2x2		SampCntNorm: enabled		mb window (us)		-0.008		0.008	
Sample rate (MSamp/s):	128		dr window (ns/s)		-0.012		0.012			
Data rate (Mb/s):	2048		ion window (TEC)		0.00		0.00			
nlags:	256		t_cohere infinite							

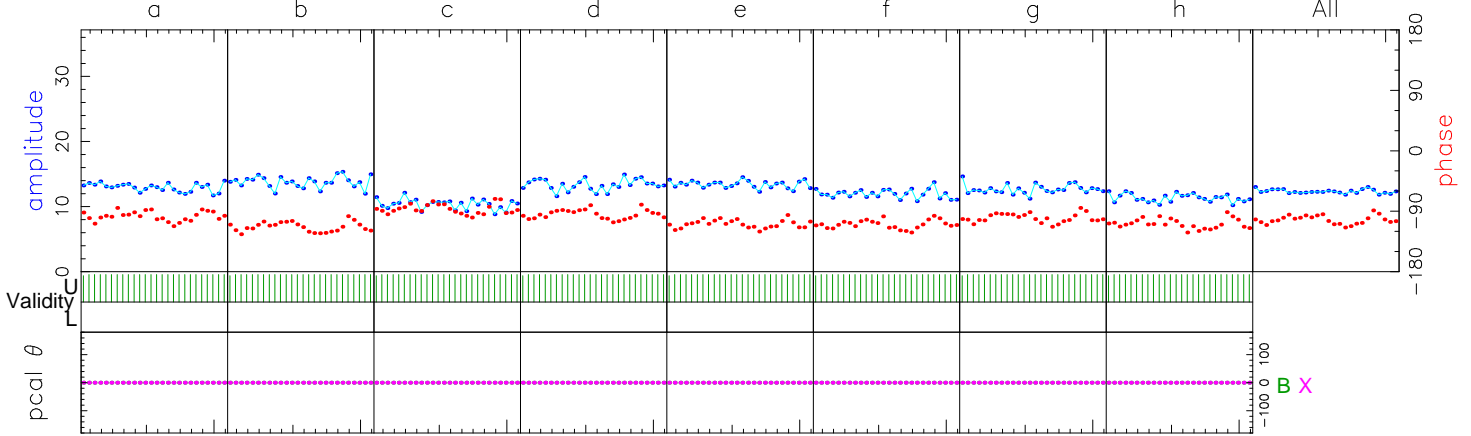
B: az 86.2 el 57.5 pa -59.0 u: az 301.8 el 32.6 pa 69.0 u,v (fr/asec) -11123.301 -173.184 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bu...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/Bu.W.26.2918BR



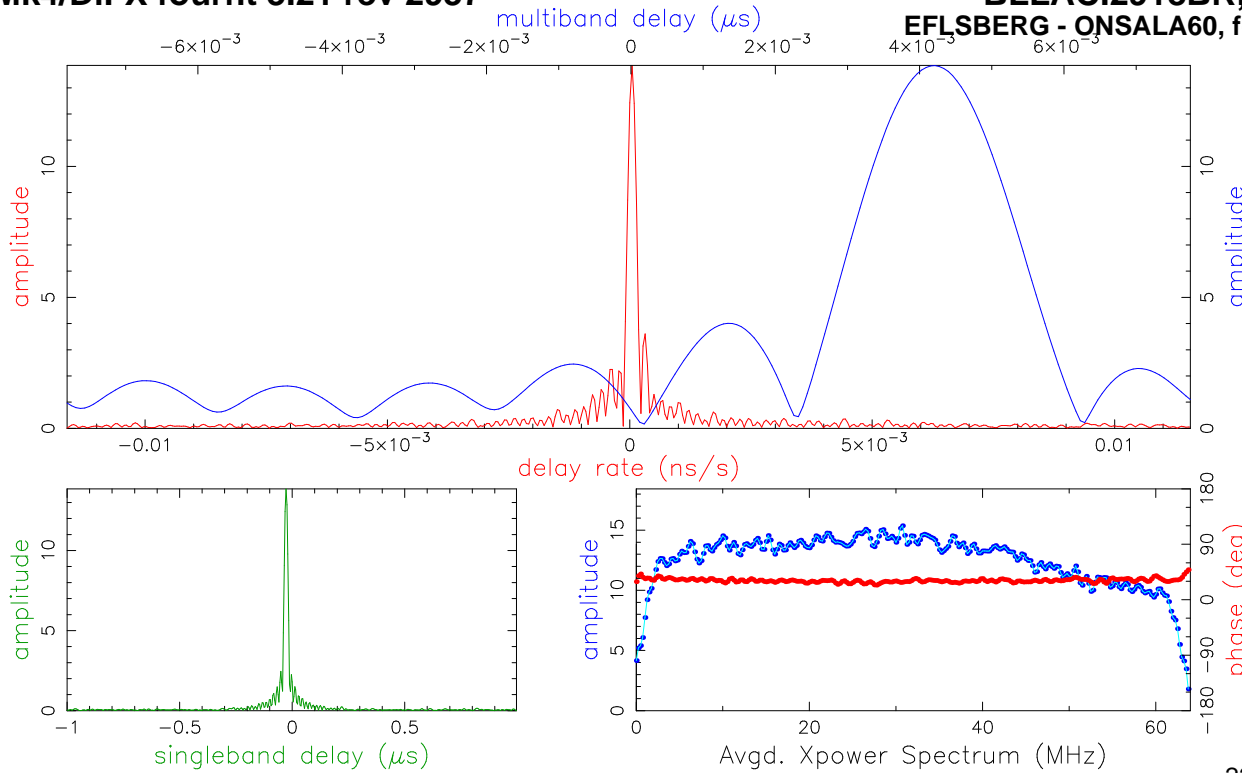
Fringe quality 9
SNR 272.9
Int time 64.894
Amp 12.388
Phase -102.6
PFD 0.0e+00
Delays (us)
SBD 0.001221
MBD 0.001448
Fringe rate (Hz) 0.005436
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230412
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



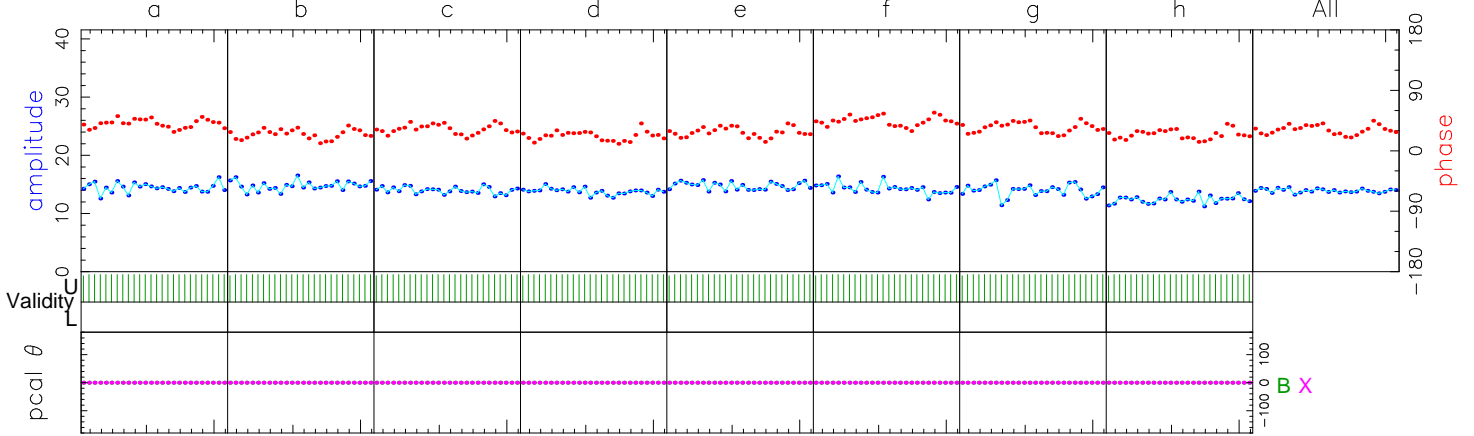
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-97.2	-113.2	-86.7	-94.5	-108.9	-109.3	-99.9	-108.5	Phase	-102.6
	12.9	13.7	10.3	13.3	13.4	11.9	12.6	11.3	Ampl.	12.4
	256.7	257.3	257.7	257.1	257.2	257.5	257.6	256.8	Sbd box	257.3
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.49947754505E+02		Apriori delay (usec)		-5.49949202861E+02		Resid mbdelay (usec)		1.44836E-03	+/- 4.0E-06
Sband delay (usec)	-5.49947981611E+02		Apriori clock (usec)		-1.0261195E+02		Resid sbdelay (usec)		1.22125E-03	+/- 3.2E-05
Phase delay (usec)	-5.49949206170E+02		Apriori clockrate (us/s)		-4.5200004E-07		Resid phdelay (usec)		-3.30960E-06	+/- 1.4E-08
Delay rate (us/s)	1.18967489778E-01		Apriori rate (us/s)		1.18967426671E-01		Resid rate (us/s)		6.31066E-08	+/- 3.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-2.99412175815E-06		Resid phase (deg)		-102.6	+/- 0.4

ph/seg (deg) 6.1 1.1 Theor. Amplitude 12.388 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 2.5 1.9 Search (512X32) 12.060 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 9.9 0.6 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 8.8 1.0 Inc. seg. avg. 12.347 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
B: az 86.2 el 57.5 pa -59.0 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) -929.410 -663.262 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/BX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/BX.W.25.2918BR



Fringe quality 9
SNR 305.2
Int time 64.894
Amp 13.856
Phase 31.4
PFD 0.0e+00
Delays (us)
SBD -0.026990
MBD 0.004207
Fringe rate (Hz) 0.005529
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec

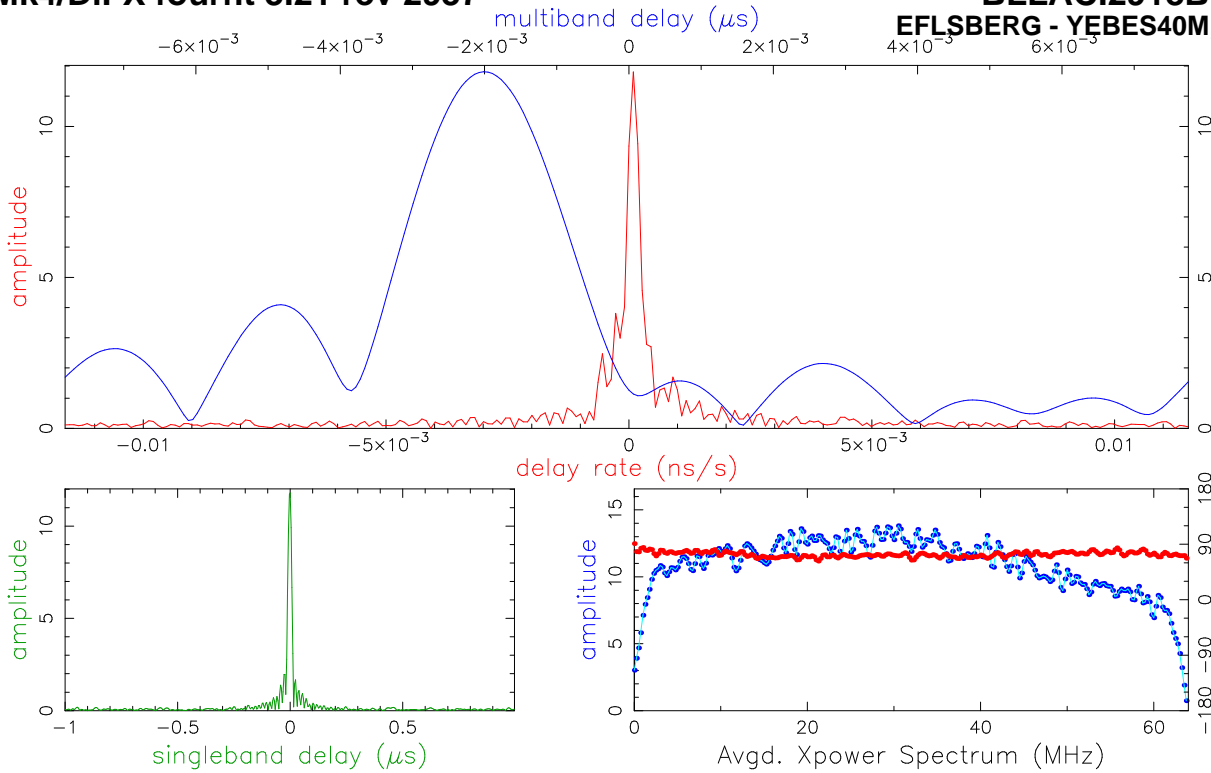


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0		
B	0	0	0	0	0	0	0	0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	-5.49976245443E+02								4.20742E-03	+/- 3.6E-06
Sband delay (usec)	-5.49976193111E+02								-2.69902E-02	+/- 2.8E-05
Phase delay (usec)	-5.49949201849E+02								1.01191E-06	+/- 1.2E-08
Delay rate (us/s)	1.18967490858E-01								6.41862E-08	+/- 3.2E-10
Total phase (deg)			-89.0						31.4	+/- 0.4
	RMS	Theor.	Amplitude	13.856 +/- 0.045					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	6.5	1.0	Search (512X32)	13.345					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	2.4	1.7	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	8.7	0.5	Inc. seg. avg.	13.932					Sample rate(MISamp/s): 128	dr window (ns/s) -0.012 0.012
amp/frq (%)	5.1	0.9	Inc. frq. avg.	13.966					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 86.2 el 57.5 pa -59.0 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) -929.410 -663.262 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/BX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/BX.W.8.2918BR

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2918BR, No0066, BY
EFLSBERG - YEBES40M, fgroup W, pol RR

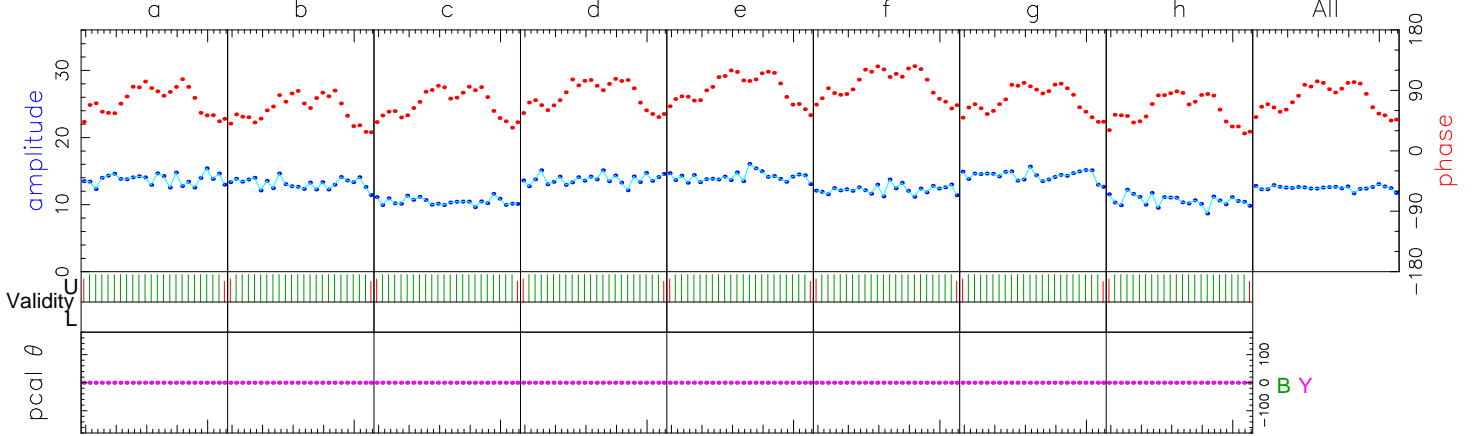


Fringe quality 7

SNR 225.8
Int time 47.177
Amp 12.020
Phase 77.2
PFD 0.0e+00
Delays (us)
SBD -0.001795
MBD -0.002051
Fringe rate (Hz)
0.006233
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

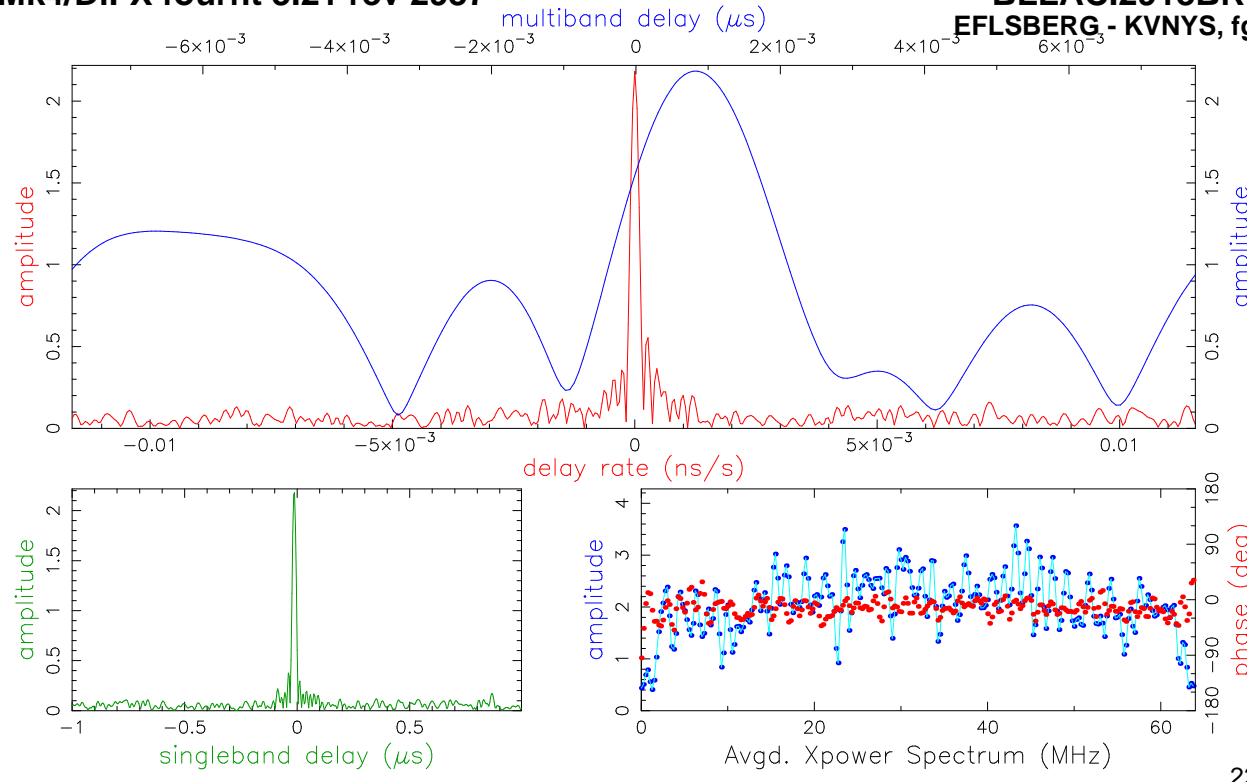
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054518.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0		
B	0	0	0	0	0	0	0	0		
Y	0	0	0	0	0	0	0	0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Group delay (usec)(sbd)		1.96650212209E+03				1.96650417344E+03			Resid mbdelay (usec)	-2.05135E-03 +/- 4.8E-06
Sband delay (usec)		1.96650237844E+03				-9.2614136E+00			Resid sbdelay (usec)	-1.79500E-03 +/- 3.8E-05
Phase delay (usec)		1.96650417593E+03				1.5010000E-06			Resid phdelay (usec)	2.49101E-06 +/- 1.6E-08
Delay rate (us/s)		-1.98099932733E-01				-1.98100005092E-01			Resid rate (us/s)	7.23590E-08 +/- 6.0E-10
Total phase (deg)			257.2			-1.21249104054E-06			Resid phase (deg)	77.2 +/- 0.5

RMS Theor. Amplitude 12.020 +/- 0.053 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 19.5 1.2 Search (256X32) 11.681 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 4.7 2.2 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 14.8 0.7 Inc. seg. avg. 12.506 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 11.6 1.3 Inc. frq. avg. 12.088 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 B: az 86.2 el 57.5 pa -59.0 Y: az 68.1 el 48.4 pa -73.0 u, v (fr/asec) 1534.024 690.210 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/BY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/BY.W.16.2918BR

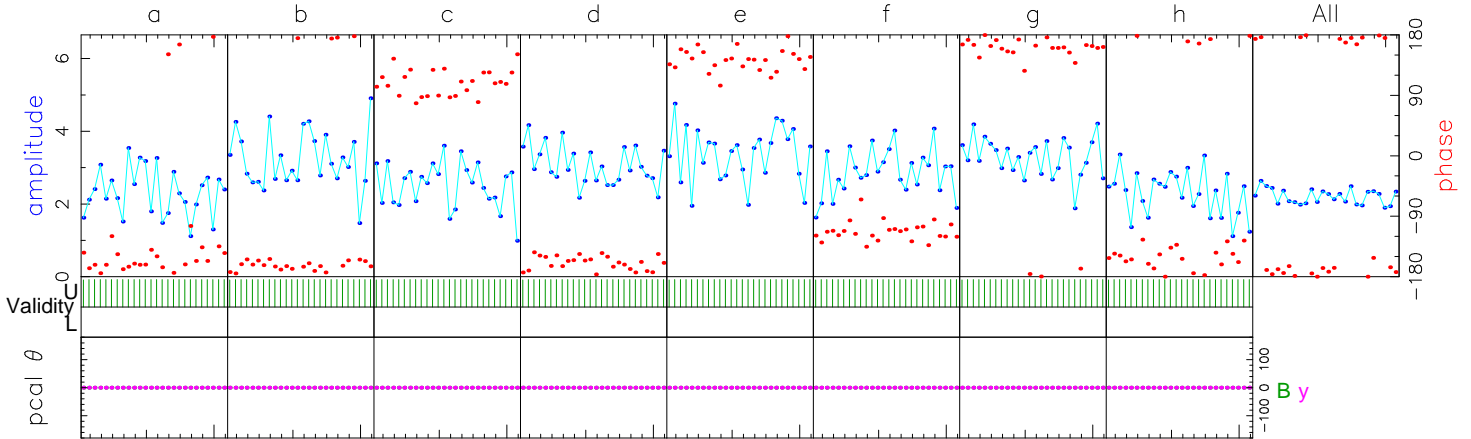


Fringe quality 6

SNR 48.9
 Int time 64.957
 Amp 2.218
 Phase -177.0
 PFD 0.0e+00
 Delays (us)
 SBD -0.013443
 MBD 0.000779
 Fringe rate (Hz)
 -0.001132
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054501.00
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230412
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec

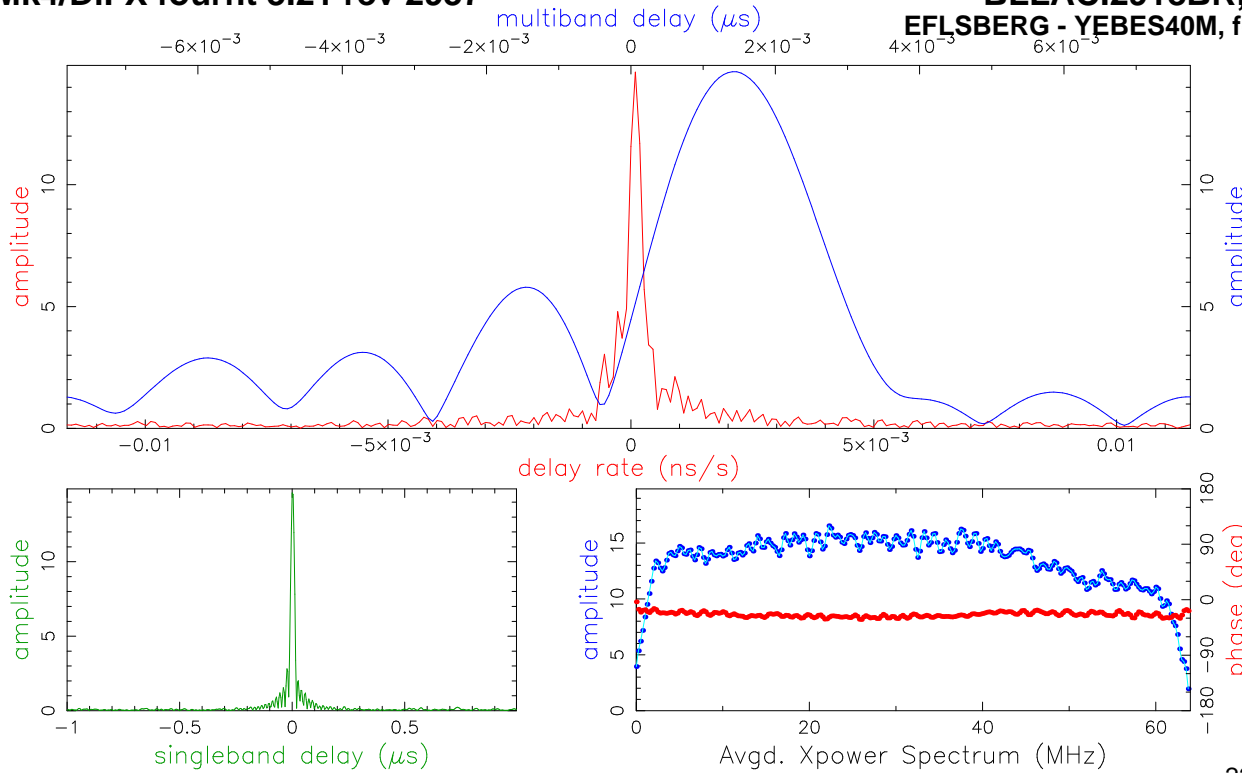


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-158.2	-166.8	108.3	-159.6	142.6	-111.8	164.3	-157.4	Phase	-177.0
	2.2	3.2	2.4	3.0	3.2	2.8	3.2	2.2	Ampl.	2.8
	251.8	253.7	254.3	254.4	254.4	254.3	254.2	252.5	Sbd box	253.6
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.04008391694E+03		Apriori delay (usec)		6.04009876259E+03		Resid mbdelay (usec)		7.79344E-04	+/- 2.2E-05
Sband delay (usec)	6.04008531934E+03		Apriori clock (usec)		-3.0902855E+01		Resid sbdelay (usec)		-1.34433E-02	+/- 1.8E-04
Phase delay (usec)	6.04009875689E+03		Apriori clockrate (us/s)		1.2400000E-07		Resid phdelay (usec)		-5.70675E-06	+/- 7.6E-08
Delay rate (us/s)	1.39670813577E+00		Apriori rate (us/s)		1.39670814891E+00		Resid rate (us/s)		-1.31385E-08	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.99312783648E-05		Resid phase (deg)		-177.0	+/- 2.3

ph/seg (deg) 9.3 6.0 Search (512X32) 2.145 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 9.1 10.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 46.5 3.3 Inc. seg. avg. 2.198 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 31.8 5.8 Inc. frq. avg. 2.772 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 86.2 el 57.5 pa -59.0 y: az 299.9 el 35.2 pa 68.1 u,v (fr/asec) -10868.195 -204.571 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/By...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/By.W.31.2918BR

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2918BR, No0066, BY
EFLSBERG - YEBES40M, fgroup W, pol LL

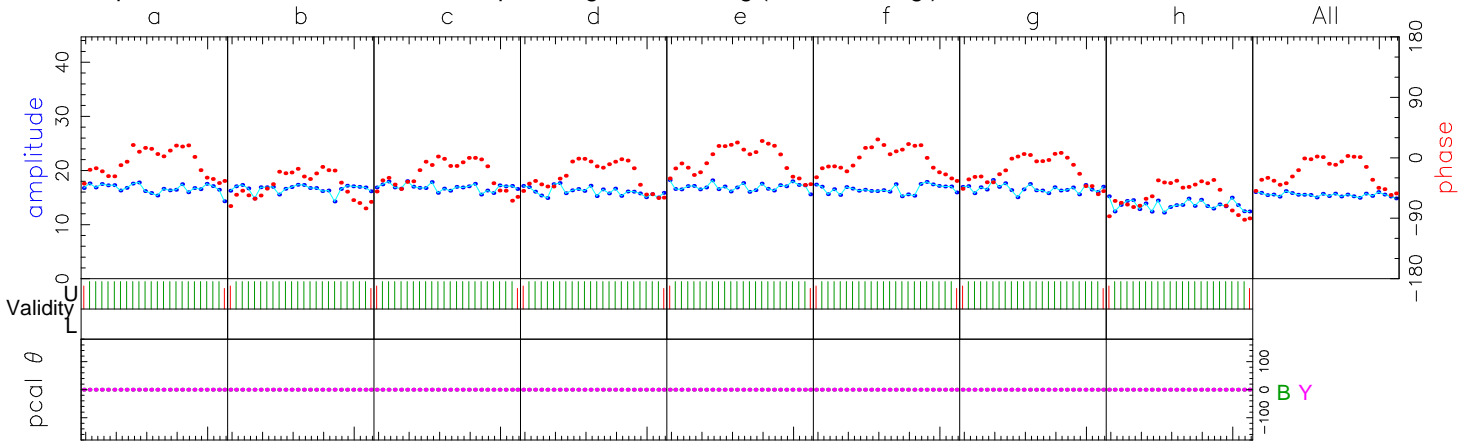


Fringe quality 7

SNR 279.8
Int time 47.177
Amp 14.898
Phase -21.9
PFD 0.0e+00
Delays (us)
SBD 0.001779
MBD 0.001481
Fringe rate (Hz) 0.006184
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

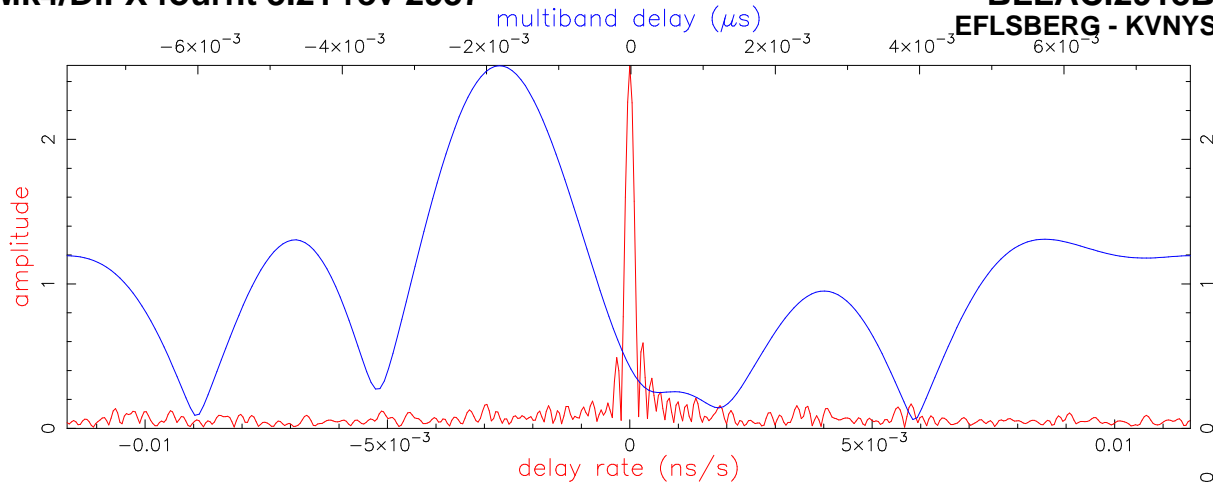
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054518.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230409
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



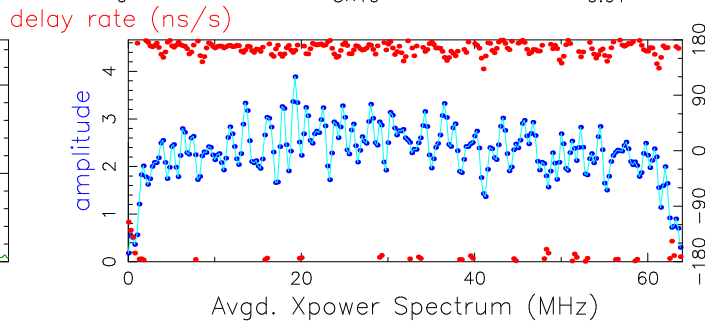
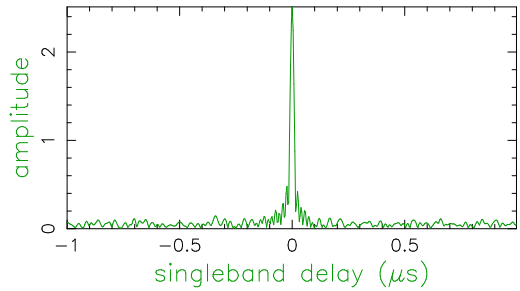
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.3	-41.6	-24.9	-26.4	-3.7	-3.2	-18.9	-57.4	Phase	-21.9
	15.8	15.7	15.9	15.2	15.9	15.7	15.7	12.8	Ampl.	15.3
	257.5	257.2	257.5	257.6	257.5	257.2	257.2	255.9	Sbd box	257.5
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	1.96650565397E+03		Apriori delay (usec)		1.96650417344E+03		Resid mbdelay (usec)		1.48053E-03	+/- 3.9E-06
Sband delay (usec)	1.96650595194E+03		Apriori clock (usec)		-9.2614136E+00		Resid sbdelay (usec)		1.77850E-03	+/- 3.1E-05
Phase delay (usec)	1.96650417273E+03		Apriori clockrate (us/s)		1.5010000E-06		Resid phdelay (usec)		-7.05929E-07	+/- 1.3E-08
Delay rate (us/s)	-1.98099933302E-01		Apriori rate (us/s)		-1.98100005092E-01		Resid rate (us/s)		7.17901E-08	+/- 4.8E-10
Total phase (deg)	158.1		Apriori accel (us/s/s)		-1.21249104054E-06		Resid phase (deg)		-21.9	+/- 0.4

ph/seg (deg) RMS 19.5 Theor. 1.0 Amplitude 14.898 +/- 0.053 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 4.6 1.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 20.7 0.6 Inc. seg. avg. 15.498 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 7.1 1.0 Inc. frq. avg. 15.314 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 B: az 86.2 el 57.5 pa -59.0 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 1534.024 690.210 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/BY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/BY.W.3.2918BR



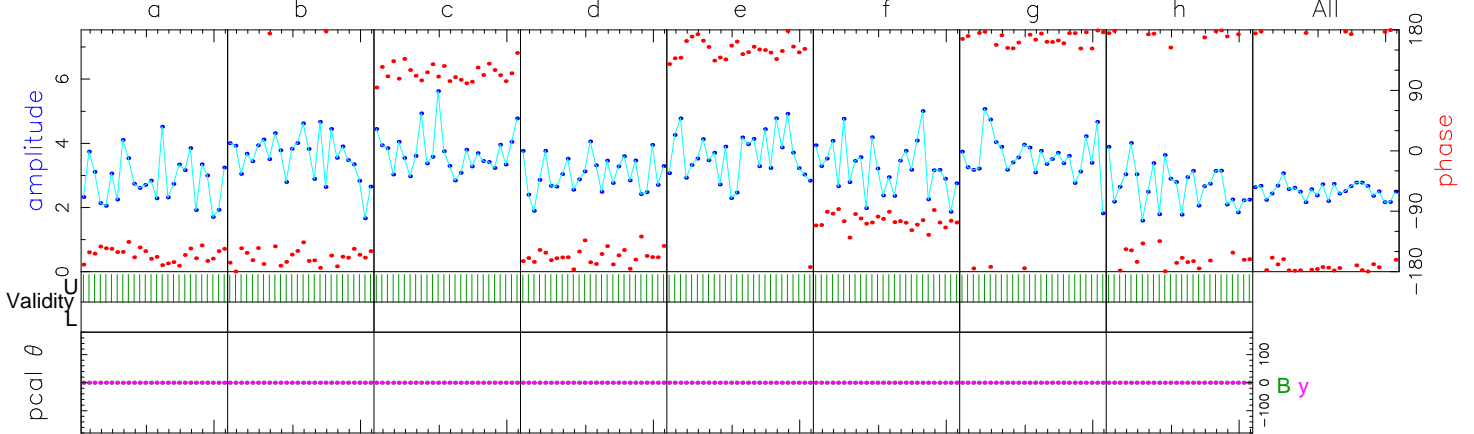
Fringe quality 6

SNR 55.4
 Int time 64.957
 Amp 2.512
 Phase -175.6
 PFD 0.0e+00
 Delays (us)
 SBD -0.000434
 MBD -0.001831
 Fringe rate (Hz)
 -0.001220
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054501.00
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230410
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

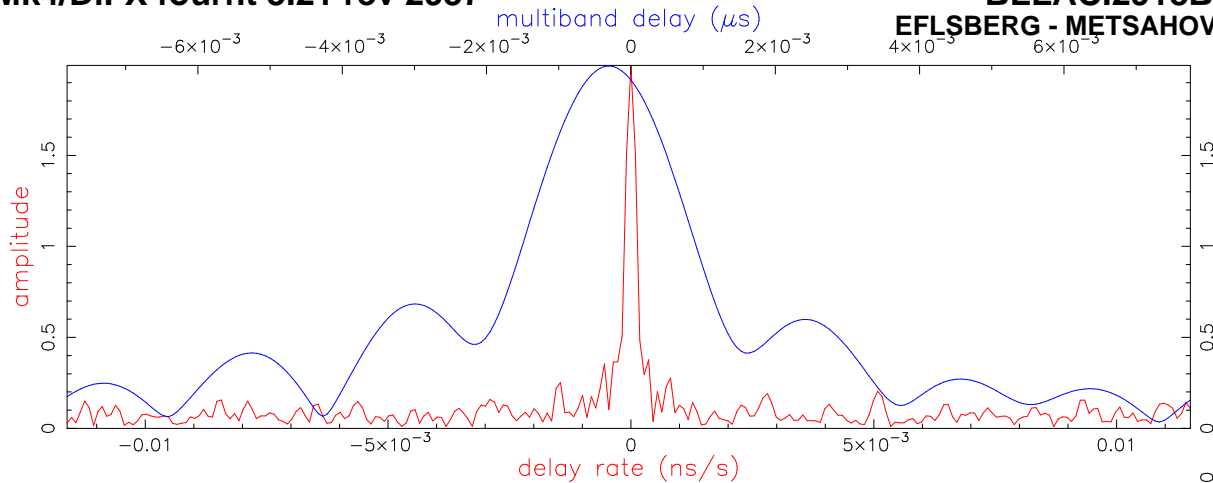
Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-154.0	-159.7	115.7	-156.4	151.5	-104.2	169.4	-171.6	Phase	-175.6
	2.8	3.5	3.6	3.0	3.5	3.2	3.5	2.6	Ampl.	3.2
	255.7	256.8	257.4	257.9	257.7	257.6	257.2	255.9	Sbd box	256.9
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	6.04009693147E+03		Apriori delay (usec)		6.04009876259E+03		Resid mbdelay (usec)		-1.83113E-03	+/- 2.0E-05
Sband delay (usec)	6.04009832884E+03		Apriori clock (usec)		-3.0902855E+01		Resid sbdelay (usec)		-4.33750E-04	+/- 1.6E-04
Phase delay (usec)	6.04009875693E+03		Apriori clockrate (us/s)		1.2400000E-07		Resid phdelay (usec)		-5.66415E-06	+/- 6.7E-08
Delay rate (us/s)	1.39670813475E+00		Apriori rate (us/s)		1.39670814891E+00		Resid rate (us/s)		-1.41630E-08	+/- 1.8E-09
Total phase (deg)			Apriori accel (us/s/s)		-1.99312783648E-05		Resid phase (deg)		-175.6	+/- 2.1

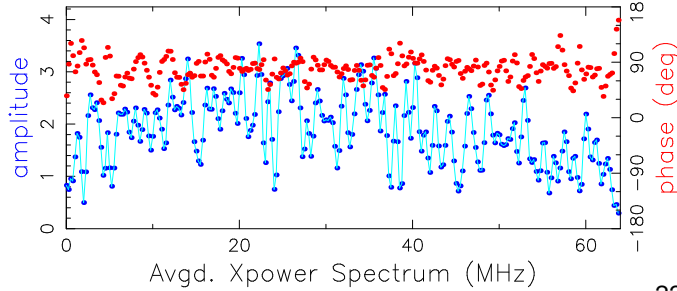
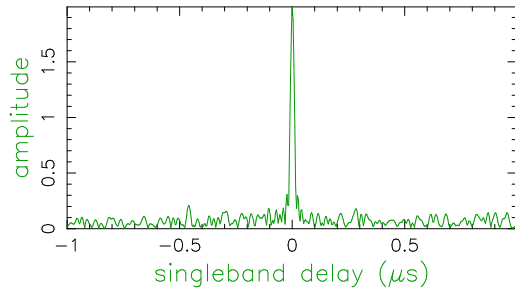
	RMS	Theor.	Amplitude	2.512 +/- 0.045	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	7.1	5.3	Search (512X32)	2.462	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	8.7	9.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled mb window (us) -0.008 0.008
ph/frq (deg)	45.2	2.9	Inc. seg. avg.	2.519	Sample rate(MISamp/s): 128	dr window (ns/s) -0.012 0.012
amp/frq (%)	31.8	5.1	Inc. frq. avg.	3.217	Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

B: az 86.2 el 57.5 pa -59.0 y: az 299.9 el 35.2 pa 68.1 u,v (fr/asec) -10868.195 -204.571 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/By...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/By.W.7.2918BR



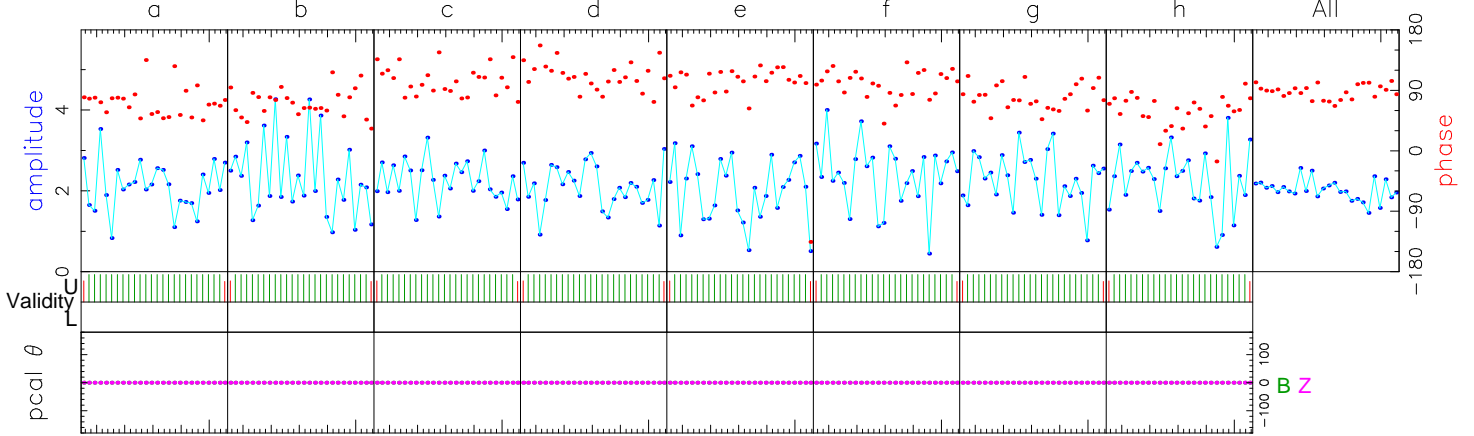
Fringe quality 8

SNR 39.0
Int time 51.030
Amp 1.995
Phase 87.3
PFD 0.0e+00
Delays (us)
SBD 0.000557
MBD -0.000290
Fringe rate (Hz)
-0.003832
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230409
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



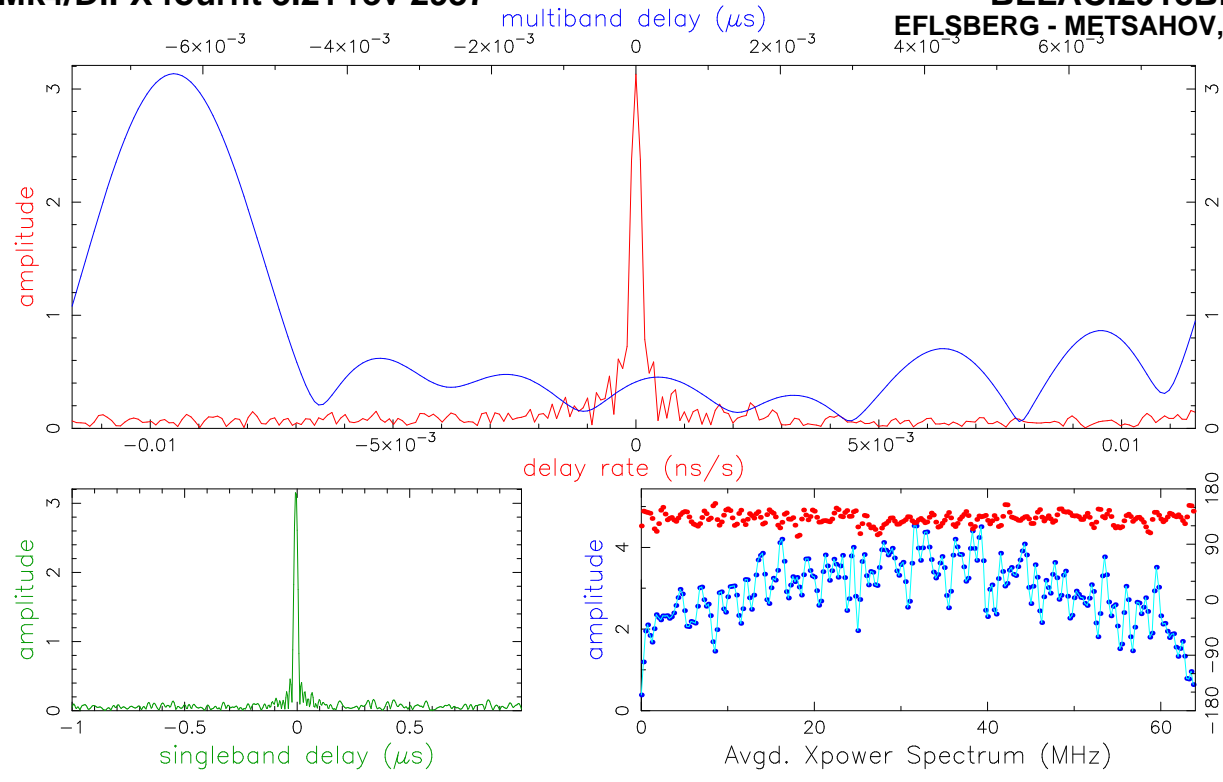
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	69.6	69.4	104.2	110.7	104.3	101.9	80.7	59.1	Phase	87.3
	2.0	2.2	2.1	2.0	1.9	2.3	2.2	2.1	Ampl.	2.1
	257.4	257.1	257.5	257.5	256.6	257.2	256.9	256.0	Sbd box	257.1
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-1.28962159205E+03	Apriori delay (usec)	-1.28962130201E+03	Resid mbdelay (usec)	-2.90031E-04	+/-	2.8E-05
Sband delay (usec)	-1.28962074501E+03	Apriori clock (usec)	-2.9475857E+01	Resid sbdelay (usec)	5.57000E-04	+/-	2.2E-04
Phase delay (usec)	-1.28962129920E+03	Apriori clockrate (us/s)	1.3770000E-07	Resid phdelay (usec)	2.81535E-06	+/-	9.5E-08
Delay rate (us/s)	2.52872590245E-01	Apriori rate (us/s)	2.52872634731E-01	Resid rate (us/s)	-4.44857E-08	+/-	3.2E-09
Total phase (deg)	-256.7	Apriori accel (us/s/s)	-6.18483865147E-07	Resid phase (deg)	87.3	+/-	2.9

ph/seg (deg)	10.2	Theor.	7.5	Amplitude	1.995 +/- 0.051	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	12.8	Search (256X32)	1.843	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	21.6	Inc. seg. avg.	2.006	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	8.3	Inc. frq. avg.	2.096	Sample rate (MSamp/s):	128	ion window (TEC)	0.00	0.00	
				Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite		

B: az 86.2 el 57.5 pa -59.0 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) -1962.331 -645.186 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/BZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/BZ.W.1.2918BR

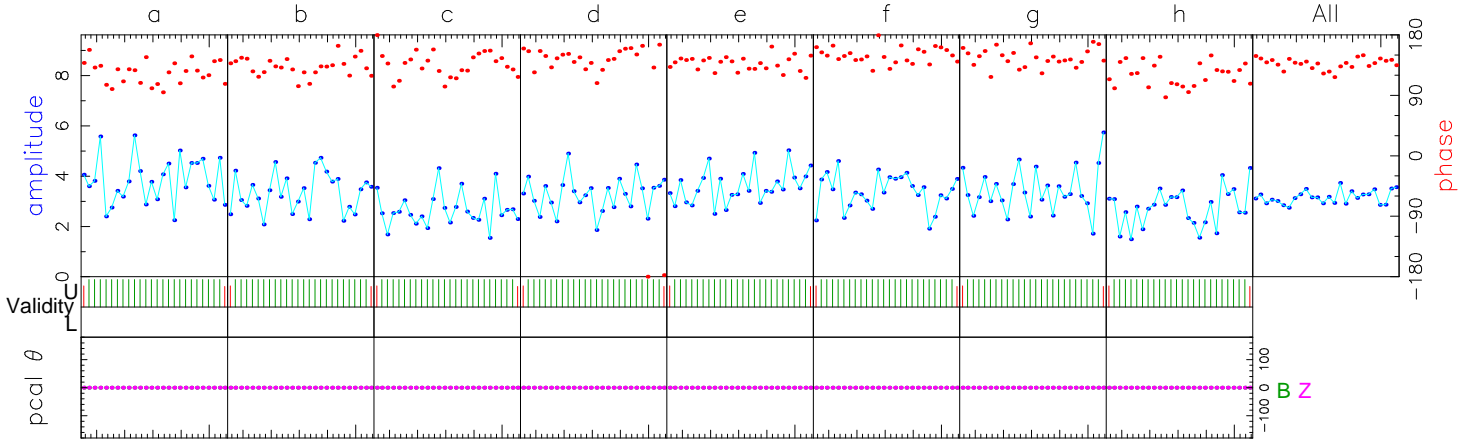


Fringe quality 8

SNR 62.7
Int time 51.030
Amp 3.208
Phase 137.0
PFD 0.0e+00
Delays (us)
SBD -0.006015
MBD -0.006457
Fringe rate (Hz)
-0.003210
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

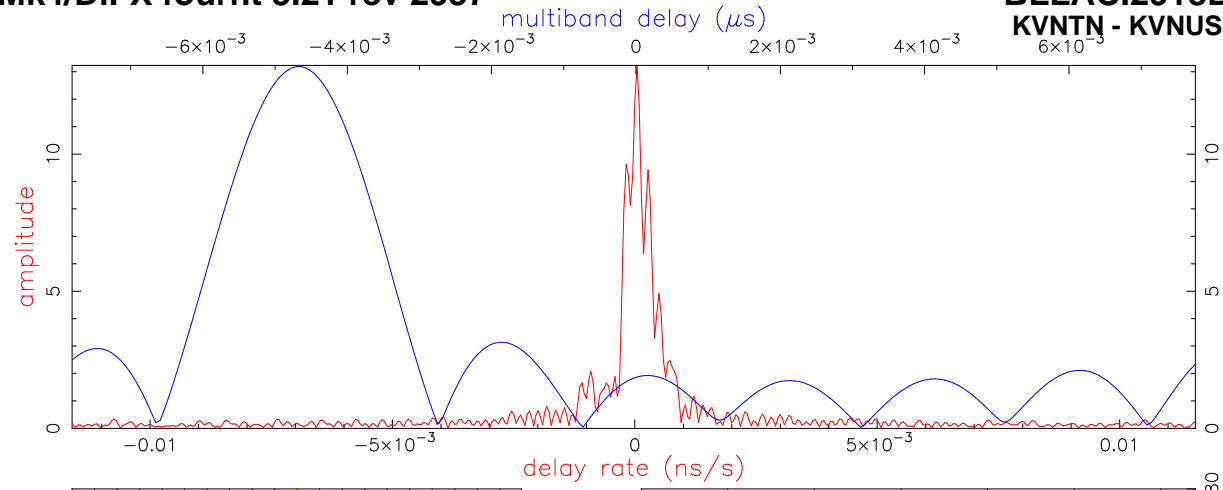
Exp. c221c
Yr:day 16383
Ex:day 2022:093
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	124.1	133.2	135.8	148.5	137.3	149.7	145.4	119.7	Phase	137.0
	3.7	3.3	2.5	3.2	3.5	3.3	3.3	2.6	Ampl.	3.2
	255.5	255.6	255.8	255.2	255.4	255.3	255.3	254.6	Sbd box	255.5
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-1.28962775892E+03		Apriori delay (usec)		-1.28962130201E+03		Resid mbdelay (usec)		-6.45691E-03	+/- 1.7E-05
Sband delay (usec)	-1.28962731676E+03		Apriori clock (usec)		-2.9475857E+01		Resid sbdelay (usec)		-6.01475E-03	+/- 1.4E-04
Phase delay (usec)	-1.28962129760E+03		Apriori clockrate (us/s)		1.3770000E-07		Resid phdelay (usec)		4.41752E-06	+/- 5.9E-08
Delay rate (us/s)	2.52872597472E-01		Apriori rate (us/s)		2.52872634731E-01		Resid rate (us/s)		-3.72591E-08	+/- 2.0E-09
Total phase (deg)			Apriori accel (us/s/s)		-6.18483865147E-07		Resid phase (deg)		137.0	+/- 1.8

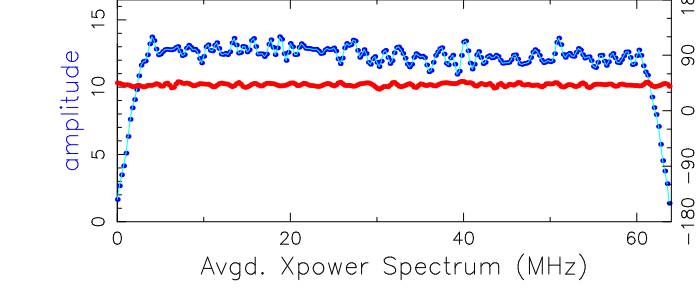
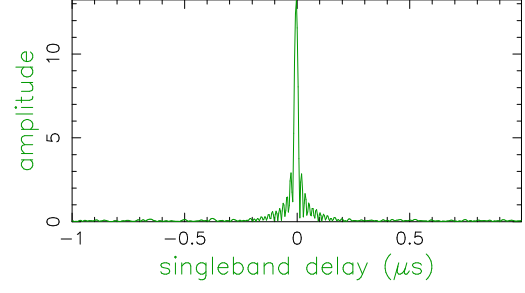
ph/seg (deg) 8.0 4.7 Search (256X32) 2.994 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 8.0 8.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 11.9 2.6 Inc. seg. avg. 3.150 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 12.0 4.5 Inc. frq. avg. 3.177 Data rate (Mbit/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
B: az 86.2 el 57.5 pa -59.0 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) -1962.331 -645.186 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/BZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/BZ.W.18.2918BR



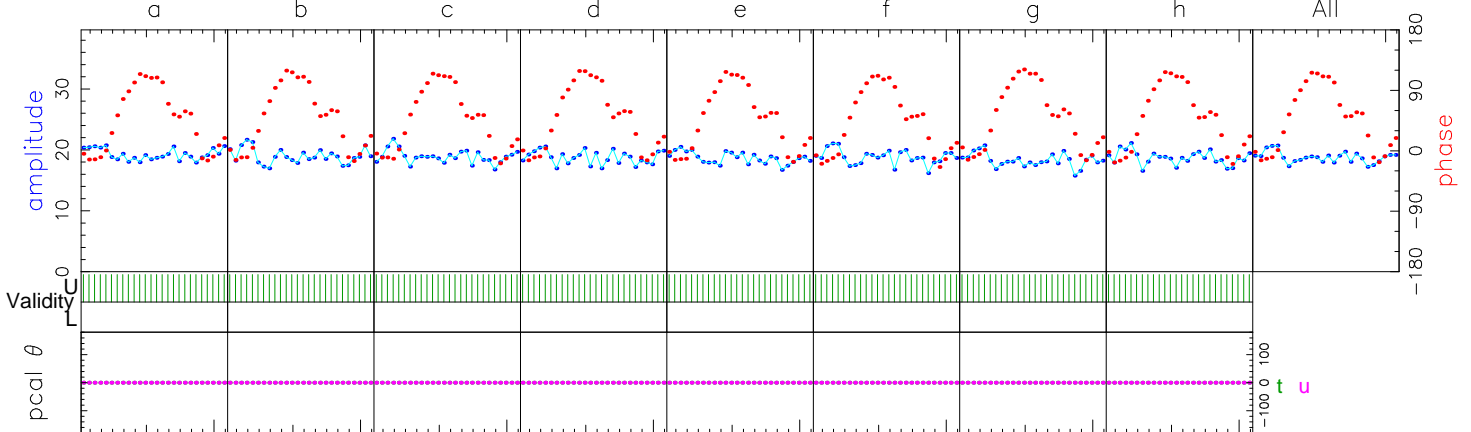
Fringe quality 5

SNR 291.8
Int time 64.988
Amp 13.235
Phase 43.1
PFD 0.0e+00
Delays (us)
SBD -0.004599
MBD -0.004672
Fringe rate (Hz)
0.004316
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

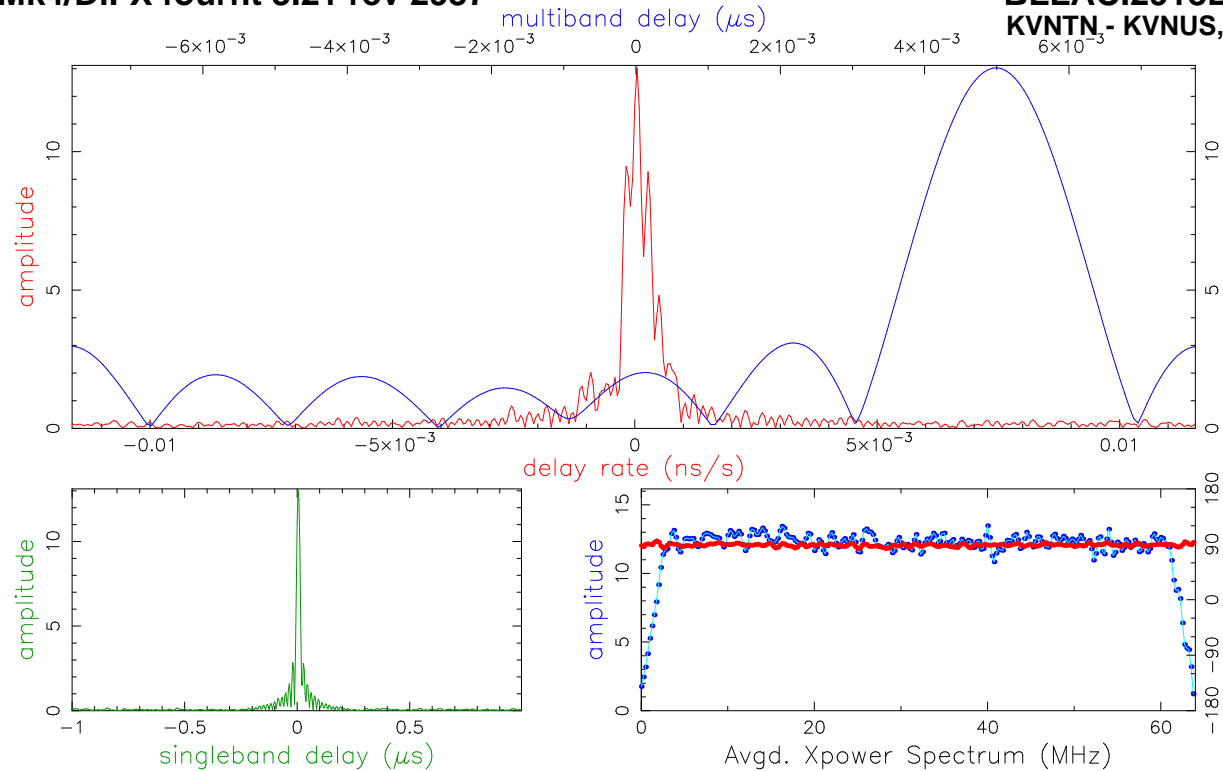


Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



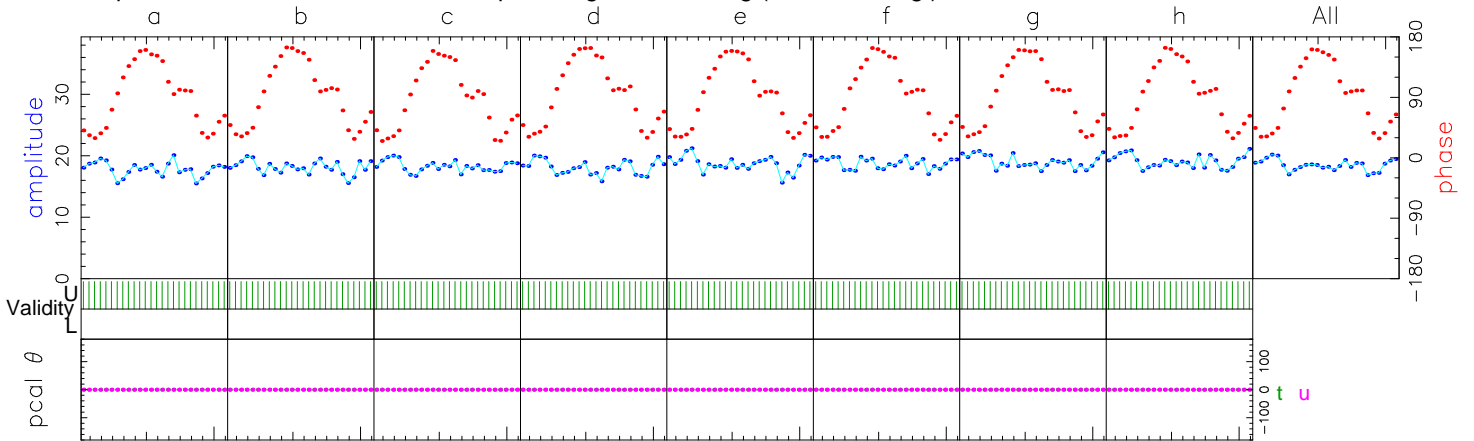
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0		
t	0	0	0	0	0	0	0	0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
Group delay (usec)(sbd)	1.97754924395E+02				1.97759595915E+02				Resid mbdelay (usec)	-4.67152E-03 +/- 3.7E-06
Sband delay (usec)	1.97754997415E+02				-3.7060730E+01				Resid sbdelay (usec)	-4.59850E-03 +/- 3.0E-05
Phase delay (usec)	1.97759597304E+02				-2.3102000E-06				Resid phdelay (usec)	1.38903E-06 +/- 1.3E-08
Delay rate (us/s)	-1.32233726686E-02				-1.32234227730E-02				Resid rate (us/s)	5.01045E-08 +/- 3.4E-10
Total phase (deg)		256.2			-3.71559617632E-06				Resid phase (deg)	43.1 +/- 0.4

ph/seg (deg) 46.2 1.0 Theor. Amplitude 13.235 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 42.6 1.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 2.2 0.6 Inc. seg. avg. 18.795 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 1.9 1.0 Inc. frq. avg. 13.202 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 t: az 302.2 el 33.3 pa 73.5 u: az 301.8 el 32.6 pa 69.0 u,v (fr/asec) 93.979 -480.051 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tu..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tu.W.10.2918BR



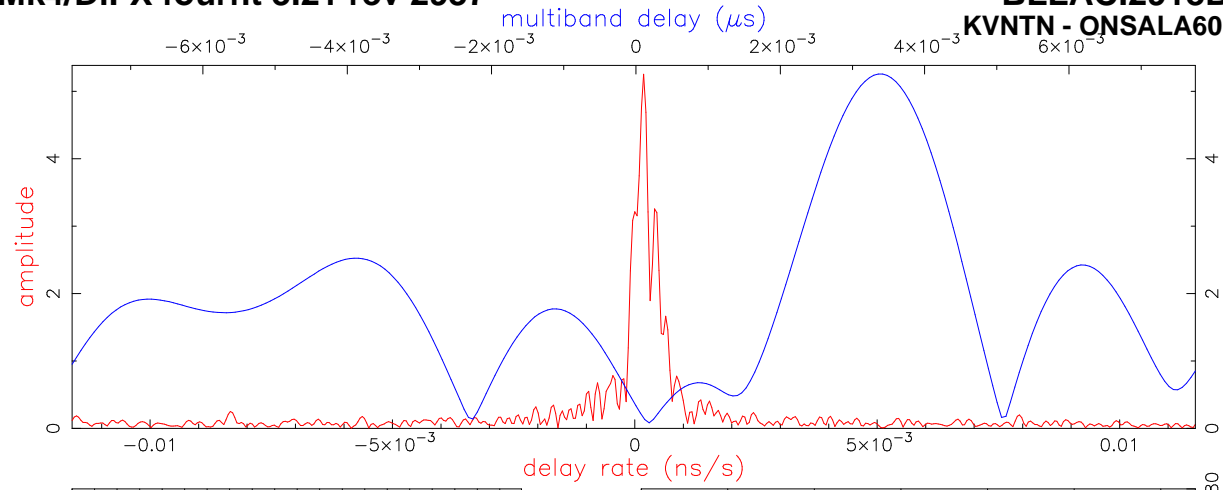
Fringe quality 5
 SNR 289.2
 Int time 64.988
 Amp 13.119
 Phase 88.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.004949
 MBD 0.004990
 Fringe rate (Hz) 0.004333
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054501.00
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230411
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	87.4	90.5	84.3	91.0	87.2	88.4	89.2	86.7	Phase	88.1
	12.6	12.8	12.8	12.7	13.2	13.2	13.4	13.5	Ampl.	13.0
	258.3	258.3	258.2	258.3	258.2	258.3	258.3	258.2	Sbd box	258.3
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
u	0	0	0	0	0	0	0	0	PC freqs	
t:u	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
tu	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
u	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	1.97764585927E+02				1.97759595915E+02				Resid mbdelay (usec)	4.99001E-03 +/- 3.8E-06
Sband delay (usec)	1.97764544415E+02				-3.7060730E+01				Resid sbdelay (usec)	4.94850E-03 +/- 3.0E-05
Phase delay (usec)	1.97759598755E+02				-2.3102000E-06				Resid phdelay (usec)	2.84045E-06 +/- 1.3E-08
Delay rate (us/s)	-1.32233724770E-02				-1.32234227730E-02				Resid rate (us/s)	5.02960E-08 +/- 3.4E-10
Total phase (deg)			301.2		-3.71559617632E-06				Resid phase (deg)	88.1 +/- 0.4

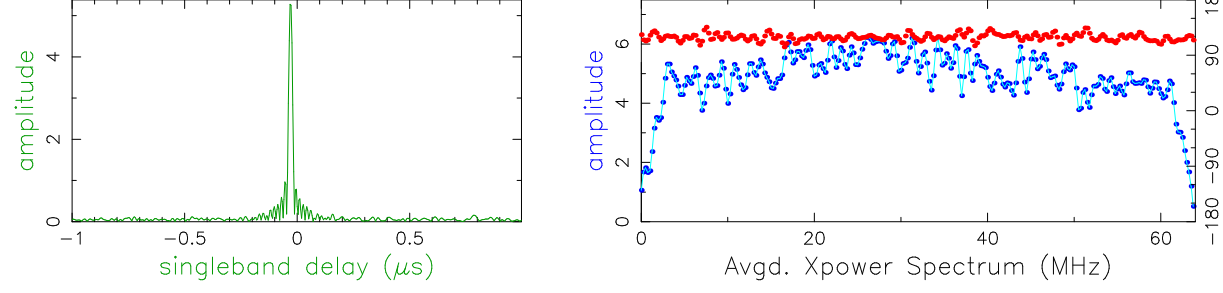
ph/seg (deg) 46.0 1.0 Search (512X32) 12.961 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 41.5 1.8 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 2.3 0.6 Inc. seg. avg. 18.492 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 2.6 1.0 Inc. frq. avg. 13.038 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 t: az 302.2 el 33.3 pa 73.5 u: az 301.8 el 32.6 pa 69.0 u,v (fr/asec) 93.979 -480.051 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tu..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tu.W.22.2918BR



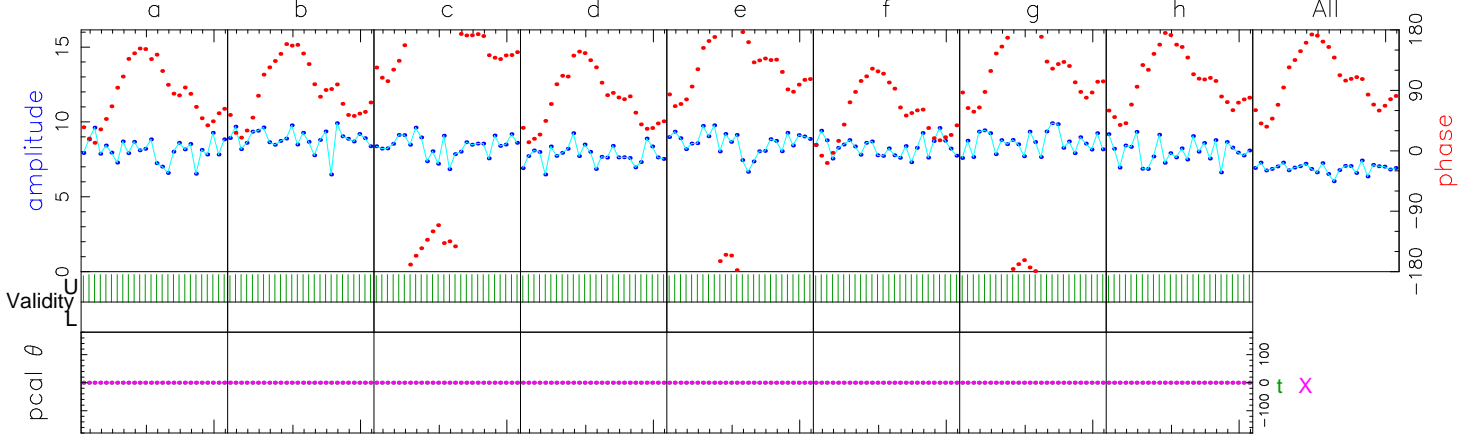
Fringe quality 4

SNR 118.6
Int time 64.894
Amp 5.384
Phase 102.7
PFD 0.0e+00
Delays (us)
SBD -0.029385
MBD 0.003345
Fringe rate (Hz)
0.014564
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Yr:day 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

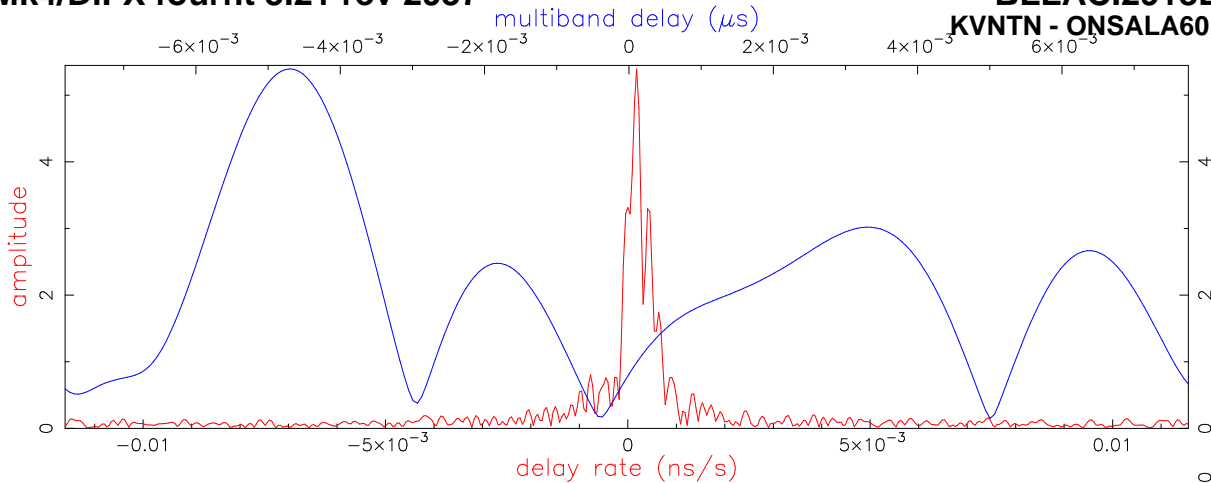


Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



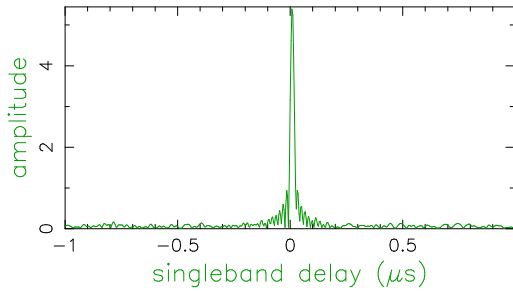
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	81.2	89.5	168.9	75.7	129.6	52.5	124.5	101.9	Phase	102.7
	6.0	6.6	6.4	5.9	6.5	6.3	6.5	6.2	Ampl.	6.3
	251.0	249.2	249.0	248.6	248.8	248.8	249.2	249.9	Sbd box	249.5
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.17281777448E+03		Apriori delay (usec)	-7.17278986996E+03	Resid mbdelay (usec)	3.34548E-03	+/-	9.2E-06		
Sband delay (usec)	-7.17281925521E+03		Apriori clock (usec)	-7.1094093E+01	Resid sbdelay (usec)	-2.93853E-02	+/-	7.3E-05		
Phase delay (usec)	-7.17278986665E+03		Apriori clockrate (us/s)	-5.7600002E-07	Resid phdelay (usec)	3.31025E-06	+/-	3.1E-08		
Delay rate (us/s)	-1.32328584131E+00		Apriori rate (us/s)	-1.32328601037E+00	Resid rate (us/s)	1.69068E-07	+/-	8.3E-10		
Total phase (deg)		-40.9	Apriori accel (us/s/s)	1.54202211052E-05	Resid phase (deg)	102.7	+/-	1.0		

ph/seg (deg) 41.3 2.5 Search (512X32) 5.201 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 29.0 4.3 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 39.7 1.4 Inc. seg. avg. 6.908 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 17.9 2.4 Inc. frq. avg. 6.316 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 t: az 302.2 el 33.3 pa 73.5 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 10287.870 -970.129 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tX.W.11.2918BR

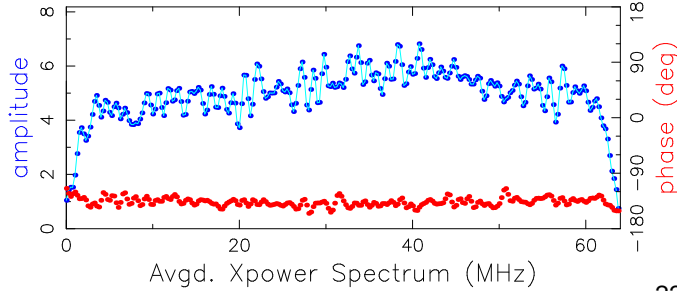


Fringe quality 3

SNR 120.0
Int time 64.894
Amp 5.447
Phase 22.3
PFD 0.0e+00
Delays (us)
SBD 0.009123
MBD -0.004664
Fringe rate (Hz)
0.014722
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

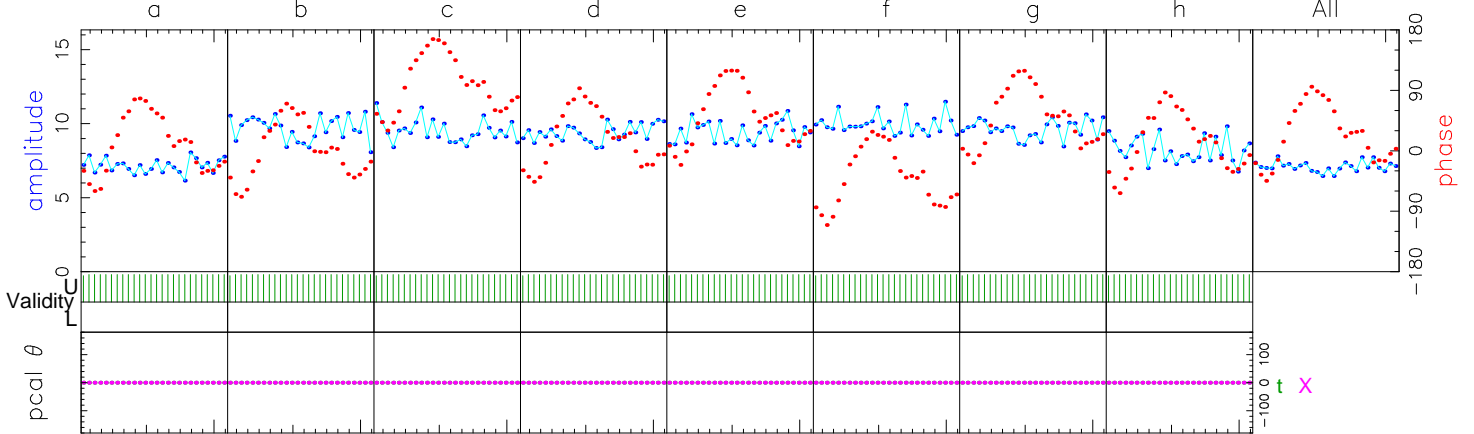


delay rate (ns/s)



Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

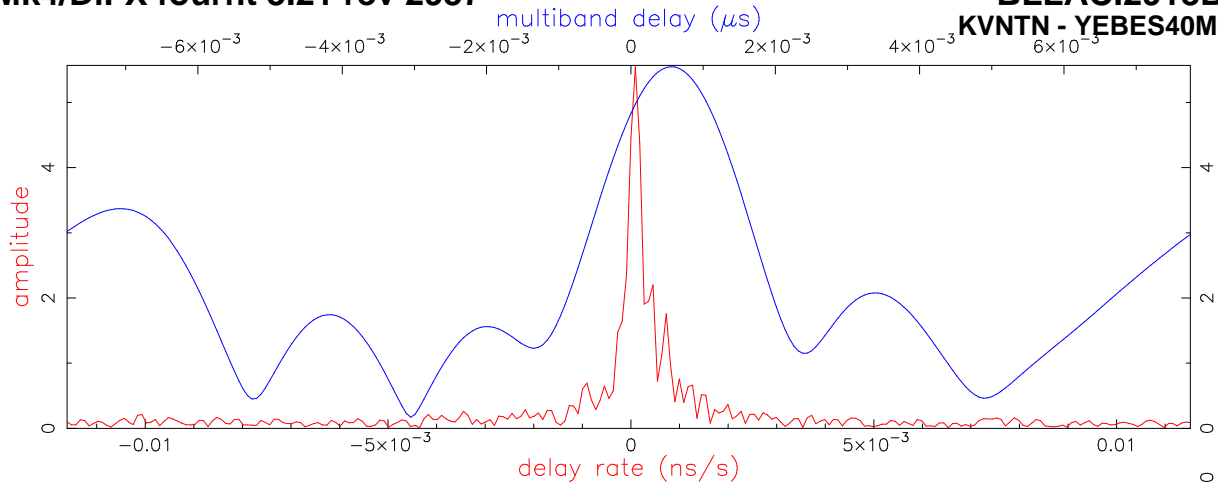
Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	7.4	-2.5	99.0	16.8	49.0	-41.7	46.6	10.1	Phase	22.3
	5.4	7.5	7.2	7.2	7.1	7.5	7.3	6.2	Ampl.	6.9
	260.3	259.3	259.0	258.7	258.4	259.0	259.1	260.0	Sbd box	259.3
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.17277890932E+03		Apriori delay (usec)		-7.17278986996E+03		Resid mbdelay (usec)		-4.66436E-03	+/- 9.0E-06
Sband delay (usec)	-7.17278074721E+03		Apriori clock (usec)		-7.1094093E+01		Resid sbdelay (usec)		9.12275E-03	+/- 7.2E-05
Phase delay (usec)	-7.17278986925E+03		Apriori clockrate (us/s)		-5.7600002E-07		Resid phdelay (usec)		7.18458E-07	+/- 3.1E-08
Delay rate (us/s)	-1.32328583947E+00		Apriori rate (us/s)		-1.32328601037E+00		Resid rate (us/s)		1.70902E-07	+/- 8.2E-10
Total phase (deg)			Apriori accel (us/s/s)		1.54202211052E-05		Resid phase (deg)		22.3	+/- 1.0

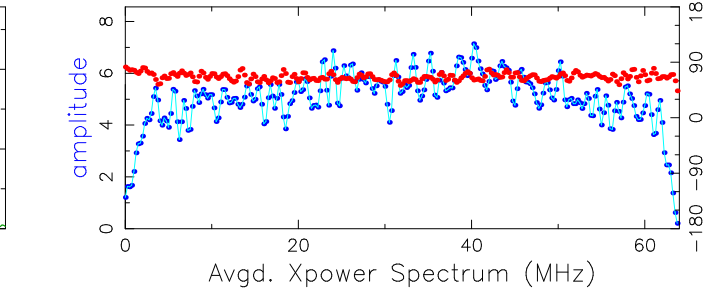
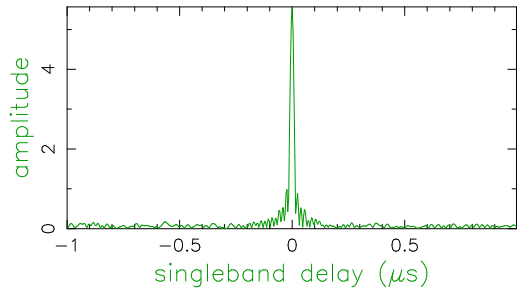
	RMS	Theor.	Amplitude	5.447 +/- 0.045	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	41.7	2.4	Search (512X32)	5.306	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	31.1	4.2	Interp.	0.000	Bits/sample: 2x2	SampCntNorm: enabled
ph/frq (deg)	45.3	1.4	Inc. seg. avg.	7.098	Sample rate(MISamp/s): 128	dr window (ns/s) -0.012 0.012
amp/frq (%)	30.0	2.4	Inc. frq. avg.	6.919	Data rate(Mb/s): 2048	ion window (TEC) 0.00 0.00

t: az 302.2 el 33.3 pa 73.5 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 10287.870 -970.129 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tX.W.23.2918BR



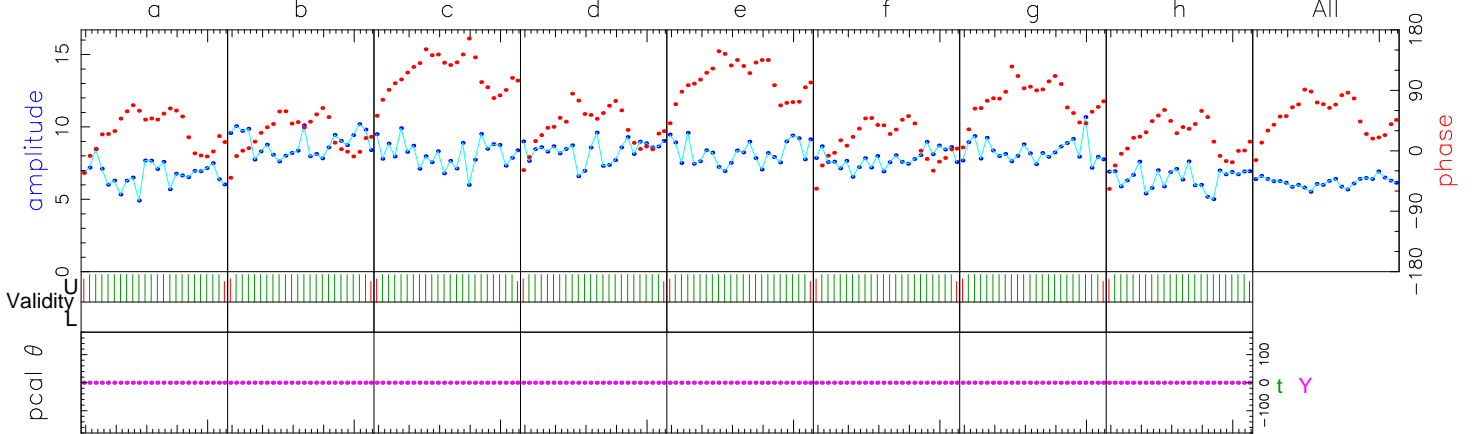
Fringe quality 4

SNR 104.6
Int time 47.177
Amp 5.569
Phase 50.5
PFD 0.0e+00
Delays (us)
SBD -0.000800
MBD 0.000539
Fringe rate (Hz)
0.008464
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054518.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

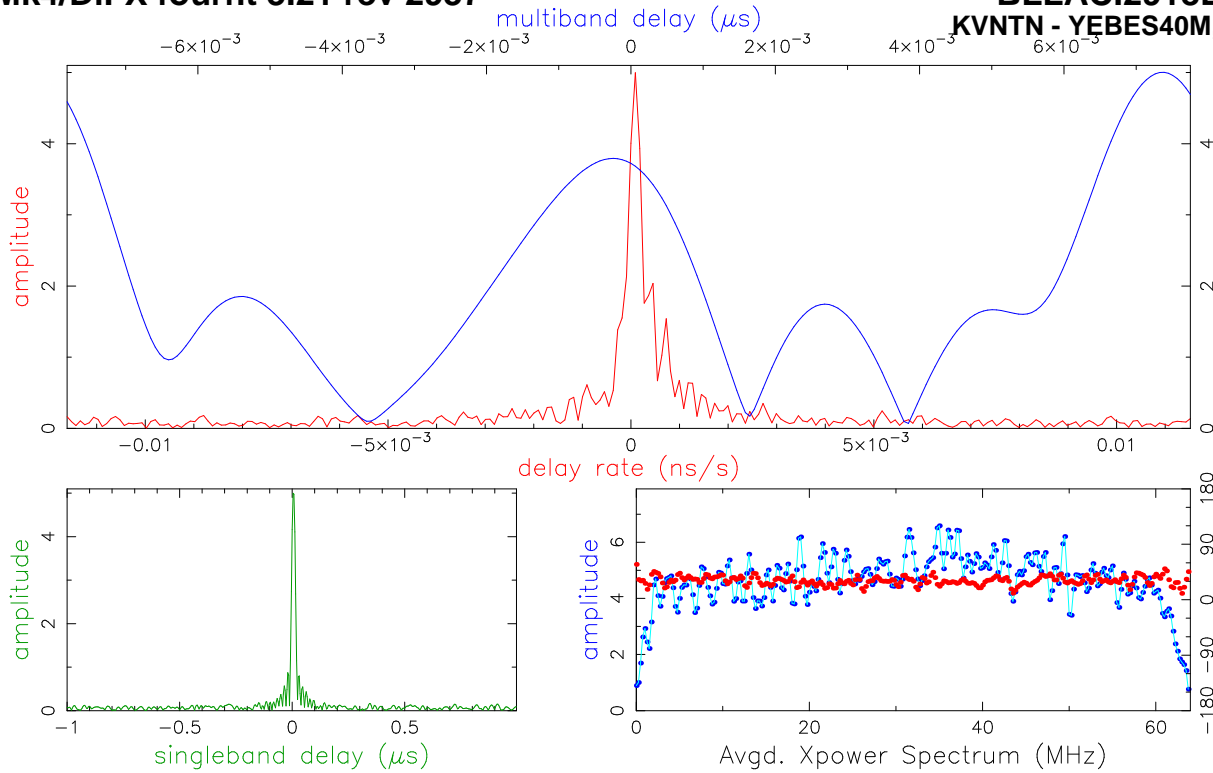


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	28.1	22.3	113.0	34.9	104.2	12.1	75.3	17.7	Phase	50.5
	6.0	8.0	7.3	7.4	7.3	6.9	7.5	5.7	Ampl.	7.0
	258.6	256.8	256.2	256.2	256.0	256.1	256.4	256.0	Sbd box	256.8
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) -4.65633595457E+03 Apriori delay (usec) -4.65633649367E+03 Resid mbdelay (usec) 5.39092E-04 +/- 1.0E-05
 Sband delay (usec) -4.65633729342E+03 Apriori clock (usec) 2.2256441E+01 Resid sbdelay (usec) -7.99750E-04 +/- 8.2E-05
 Phase delay (usec) -4.65633649204E+03 Apriori clockrate (us/s) 1.3770000E-06 Resid phdelay (usec) 1.62896E-06 +/- 3.5E-08
 Delay rate (us/s) -1.64035334388E+00 Apriori rate (us/s) -1.64035344214E+00 Resid rate (us/s) 9.82528E-08 +/- 1.3E-09
 Total phase (deg) -152.7 Apriori accel (us/s/s) 1.72018518228E-05 Resid phase (deg) 50.5 +/- 1.1

RMS Theor. Amplitude 5.569 +/- 0.053 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 26.9 2.7 Search (256X32) 5.531 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 12.7 4.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 43.8 1.5 Inc. seg. avg. 6.194 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 28.9 2.7 Inc. frq. avg. 7.001 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 302.2 el 33.3 pa 73.5 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 12751.303 383.343 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tY.W.19.2918BR

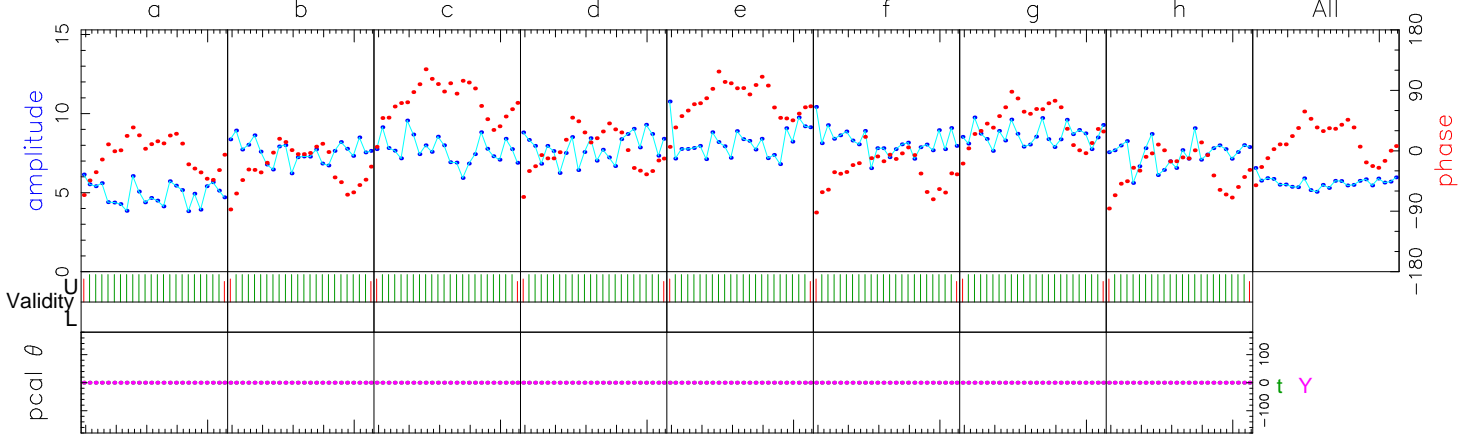


Fringe quality 4

SNR 95.8
Int time 47.177
Amp 5.100
Phase 11.6
PFD 0.0e+00
Delays (us)
SBD 0.005757
MBD 0.007408
Fringe rate (Hz)
0.008617
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

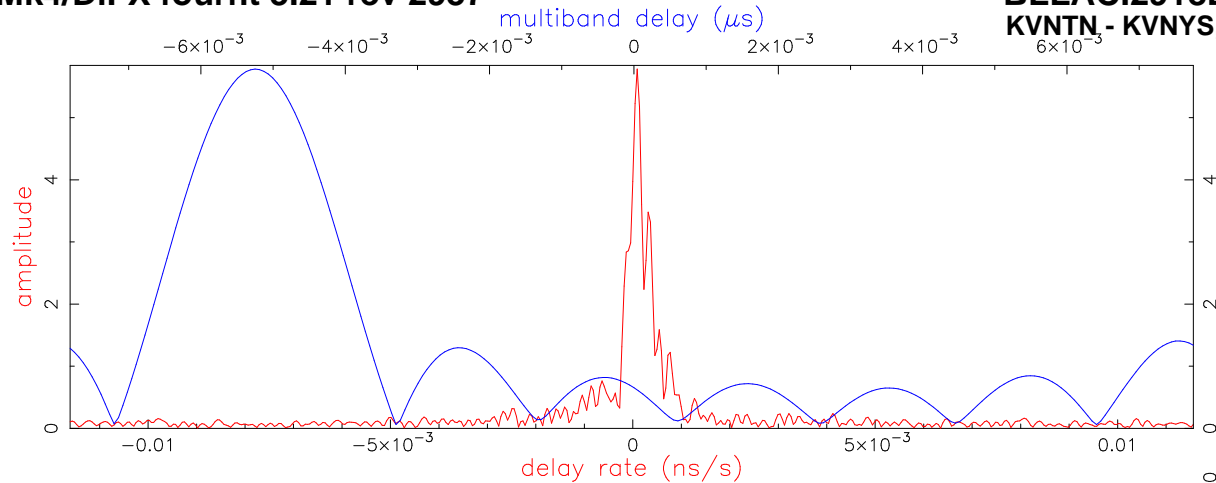
Exp. c221c
Yr:day 16383
Start 2022:093
Stop 2022:093
FRT 054518.50
2022:171:230400
2022:171:230412
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



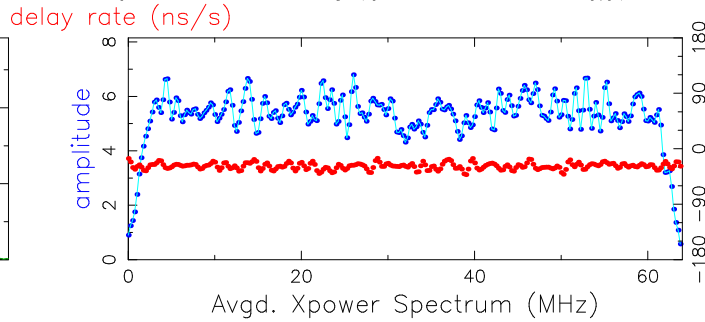
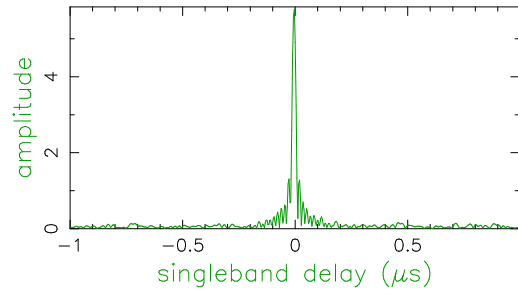
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-7.0	-25.7	73.9	-0.8	73.2	-31.1	40.7	-29.1	Phase	11.6
	4.4	6.7	6.9	6.9	7.3	7.3	7.6	6.7	Ampl.	6.7
	260.3	258.0	258.4	258.2	257.7	257.9	258.2	258.1	Sbd box	258.5
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.65632908542E+03		Apriori delay (usec)		-4.65633649367E+03		Resid mbdelay (usec)		7.40825E-03	+/- 1.1E-05
Sband delay (usec)	-4.65633073617E+03		Apriori clock (usec)		2.2256441E+01		Resid sbdelay (usec)		5.75750E-03	+/- 9.0E-05
Phase delay (usec)	-4.65633649329E+03		Apriori clockrate (us/s)		1.3770000E-06		Resid phdelay (usec)		3.75048E-07	+/- 3.9E-08
Delay rate (us/s)	-1.64035334211E+00		Apriori rate (us/s)		-1.64035344214E+00		Resid rate (us/s)		1.00029E-07	+/- 1.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.72018518228E-05		Resid phase (deg)		11.6	+/- 1.2

ph/seg (deg) 27.4 2.9 Search (256X32) 4.987 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 12.0 5.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 48.1 1.7 Inc. seg. avg. 5.628 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 36.8 3.0 Inc. frq. avg. 6.722 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
t: az 302.2 el 33.3 pa 73.5 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 12751.303 383.343 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tY.W.27.2918BR



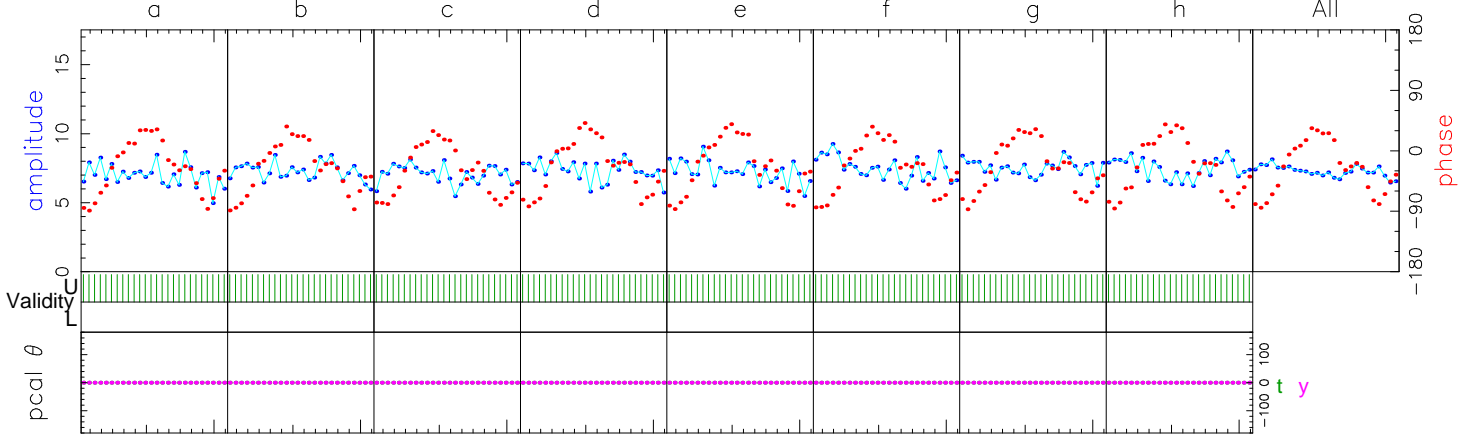
Fringe quality 6

SNR 128.8
Int time 64.988
Amp 5.842
Phase -27.5
PFD 0.0e+00
Delays (us)
SBD -0.005190
MBD -0.005247
Fringe rate (Hz)
0.008290
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



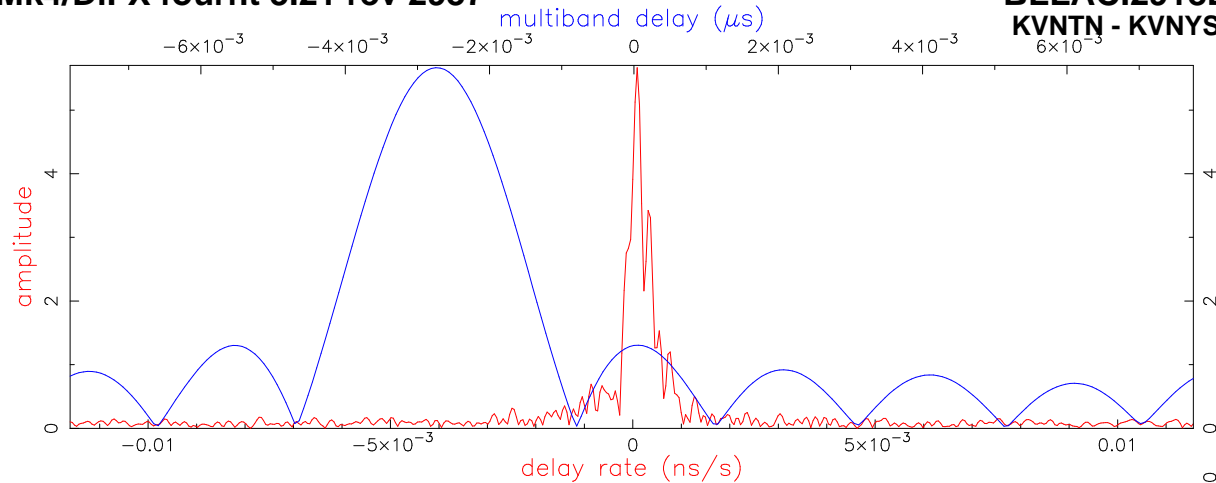
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230412
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



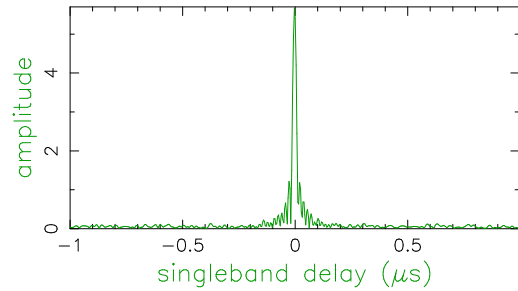
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-26.4	-27.5	-32.2	-24.9	-25.2	-28.9	-26.7	-28.0	Phase	-27.5
	5.5	5.9	5.7	5.8	5.6	6.0	6.0	5.8	Ampl.	5.8
	255.6	255.7	255.6	255.8	255.5	255.8	255.7	255.7	Sbd box	255.7
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-5.82747151548E+02		Apriori delay (usec)		-5.82741904509E+02		Resid mbdelay (usec)		-5.24704E-03	+/- 8.4E-06
Sband delay (usec)	-5.82747094259E+02		Apriori clock (usec)		6.1499977E-01		Resid sbdelay (usec)		-5.18975E-03	+/- 6.7E-05
Phase delay (usec)	-5.82741905395E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-8.86125E-07	+/- 2.9E-08
Delay rate (us/s)	-4.55451918937E-02		Apriori rate (us/s)		-4.55452881324E-02		Resid rate (us/s)		9.62387E-08	+/- 7.6E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.51693550140E-06		Resid phase (deg)		-27.5	+/- 0.9

ph/seg (deg) 37.8 2.3 Search (512X32) 5.744 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 25.5 4.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 2.5 1.3 Inc. seg. avg. 7.275 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 3.0 2.2 Inc. frq. avg. 5.785 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
t: az 302.2 el 33.3 pa 73.5 y: az 299.9 el 35.2 pa 68.1 u,v (fr/asec) 349.085 -511.438 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/ty..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/ty.W.32.2918BR

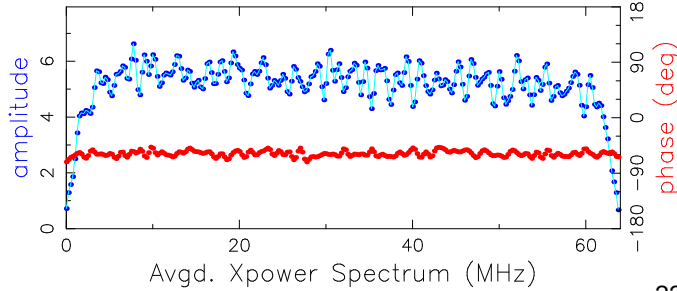


Fringe quality 6

SNR 125.7
Int time 64.988
Amp 5.702
Phase -60.5
PFD 0.0e+00
Delays (us)
SBD -0.002905
MBD -0.002734
Fringe rate (Hz)
0.008103
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

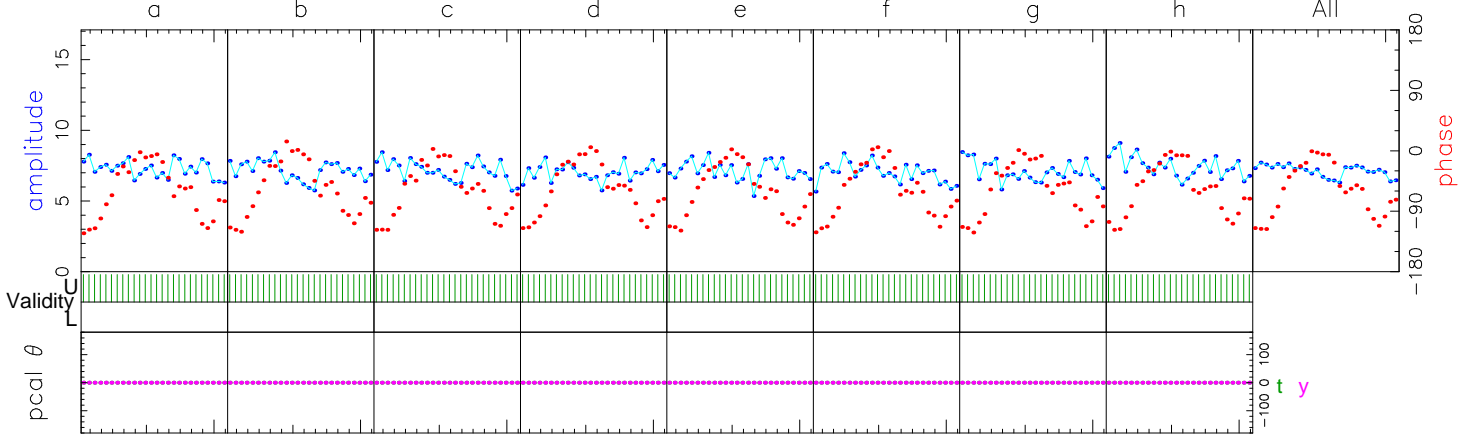


delay rate (ns/s)



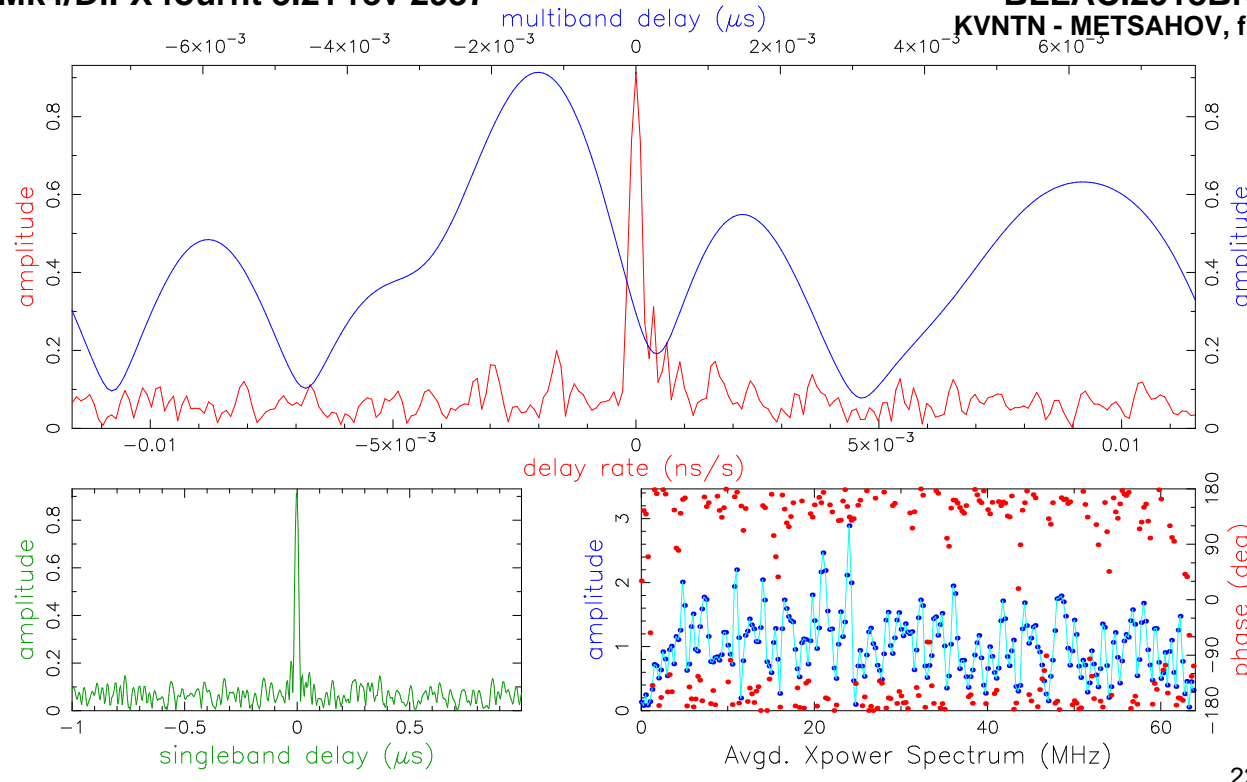
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-61.4	-59.6	-61.8	-58.5	-60.8	-59.4	-61.7	-60.7	Phase	-60.5
	5.7	5.6	5.7	5.6	5.7	5.5	5.6	6.0	Ampl.	5.7
	256.3	256.3	256.2	256.4	256.2	256.2	256.3	256.1	Sbd box	256.3
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
t	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
t	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Chan ids	
									Tracks	
Group delay (usec)(sbd)	-5.82744638923E+02		Apriori delay (usec)		-5.82741904509E+02		Resid mbdelay (usec)		-2.73441E-03	+/- 8.6E-06
Sband delay (usec)	-5.82744809509E+02		Apriori clock (usec)		6.1499977E-01		Resid sbdelay (usec)		-2.90500E-03	+/- 6.9E-05
Phase delay (usec)	-5.82741906460E+02		Apriori clockrate (us/s)		0.0000000E+00		Resid phdelay (usec)		-1.95137E-06	+/- 2.9E-08
Delay rate (us/s)	-4.55451940617E-02		Apriori rate (us/s)		-4.55452881324E-02		Resid rate (us/s)		9.40707E-08	+/- 7.8E-10
Total phase (deg)			Apriori accel (us/s/s)		-1.51693550140E-06		Resid phase (deg)		-60.5	+/- 0.9

RMS Theor. Amplitude 5.702 +/- 0.045
 ph/seg (deg) 38.0 2.3 Search (512X32) 5.587 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 26.2 4.1 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 1.3 1.3 Inc. seg. avg. 7.132 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 2.5 2.3 Inc. frq. avg. 5.667 Sample rate(MISamp/s): 128 Data rate (Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 t: az 302.2 el 33.3 pa 73.5 y: az 299.9 el 35.2 pa 68.1 u,v (fr/asec) 349.085 -511.438 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/ty..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/ty.W.6.2918BR

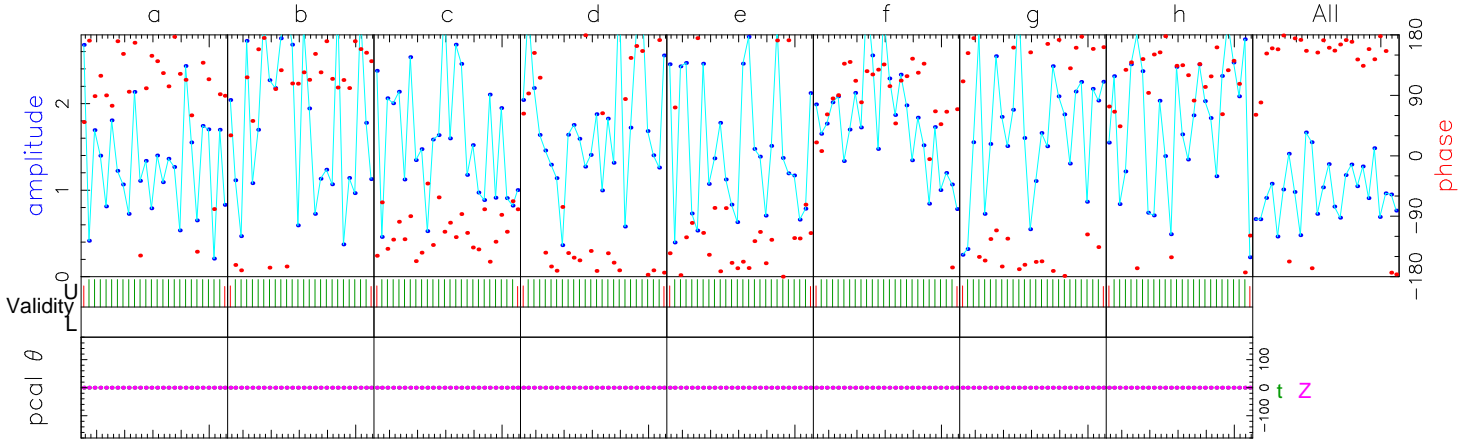


Fringe quality 7

SNR 18.2
Int time 51.030
Amp 0.931
Phase 162.9
PFD 0.0e+00
Delays (us)
SBD -0.002039
MBD -0.001311
Fringe rate (Hz)
-0.000883
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

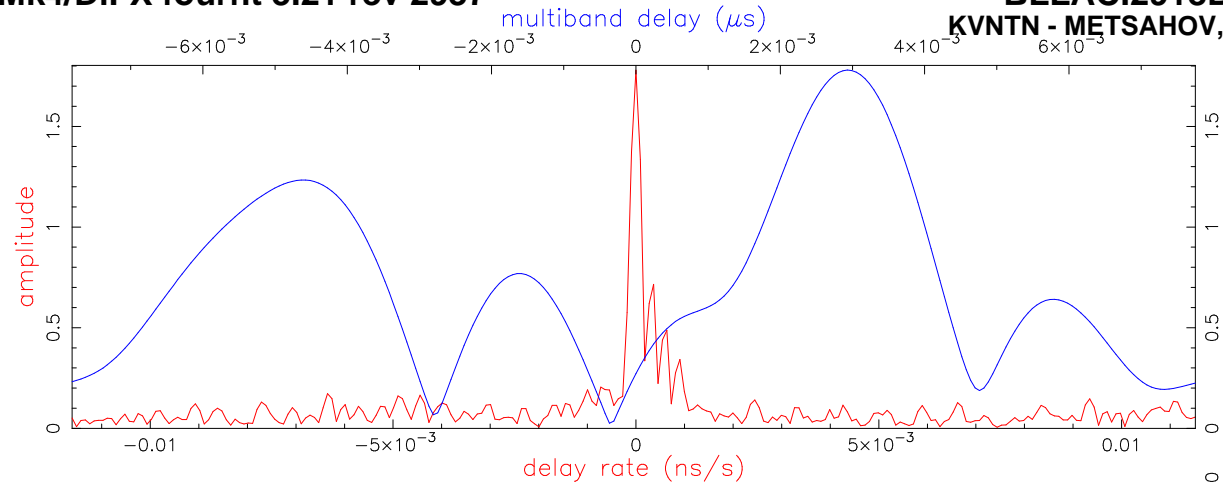


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
118.1	136.7	-113.9	173.5	-144.1	102.1	-169.7	129.6	129.6	Phase	162.9
1.0	1.4	1.4	1.3	1.2	1.4	1.5	1.4	1.4	Ampl.	1.3
257.6	256.8	256.2	255.7	255.5	255.5	256.1	256.9	256.9	Sbd box	256.5
U/L 103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
t 0	0	0	0	0	0	0	0	0	PC freqs	
Z 0	0	0	0	0	0	0	0	0	PC freqs	
t:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
t:Z 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
t 1000	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z 1000	1000	1000	1000	1000	1000	1000	1000	1000		
t W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W07UL	Chan ids	
Z W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W07UL	Tracks	
									Chan ids	
									Tracks	

Group delay (usec)(sbd) -7.91246327965E+03 Apriori delay (usec) -7.91246196912E+03 Resid mbdelay (usec) -1.31053E-03 +/- 6.0E-05
 Sband delay (usec) -7.91246400787E+03 Apriori clock (usec) 2.0419979E+00 Resid sbdelay (usec) -2.03875E-03 +/- 4.7E-04
 Phase delay (usec) -7.91246196386E+03 Apriori clockrate (us/s) 1.3700000E-08 Resid phdelay (usec) 5.25392E-06 +/- 2.0E-07
 Delay rate (us/s) -1.18938081256E+00 Apriori rate (us/s) -1.18938080231E+00 Resid rate (us/s) -1.02449E-08 +/- 6.8E-09
 Total phase (deg) 155.8 Apriori accel (us/s/s) 1.77958589982E-05 Resid phase (deg) 162.9 +/- 6.3

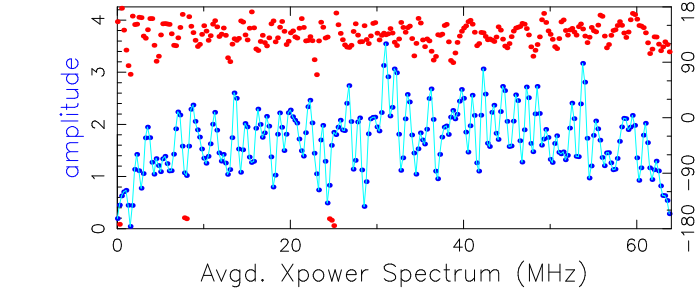
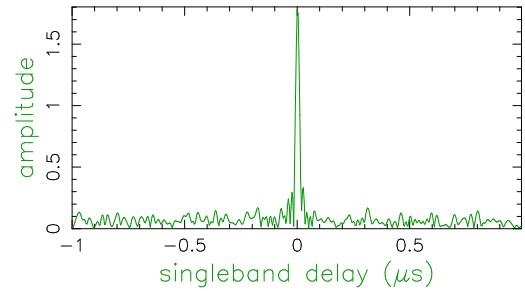
RMS Theor. Amplitude 0.931 +/- 0.051 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 28.8 16.1 Search (256X32) 0.908 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 35.0 28.0 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 54.9 8.9 Inc. seg. avg. 0.967 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 45.4 15.5 Inc. frq. avg. 1.309 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

t: az 302.2 el 33.3 pa 73.5 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) 9254.949 -952.053 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tZ.W.37.2918BR



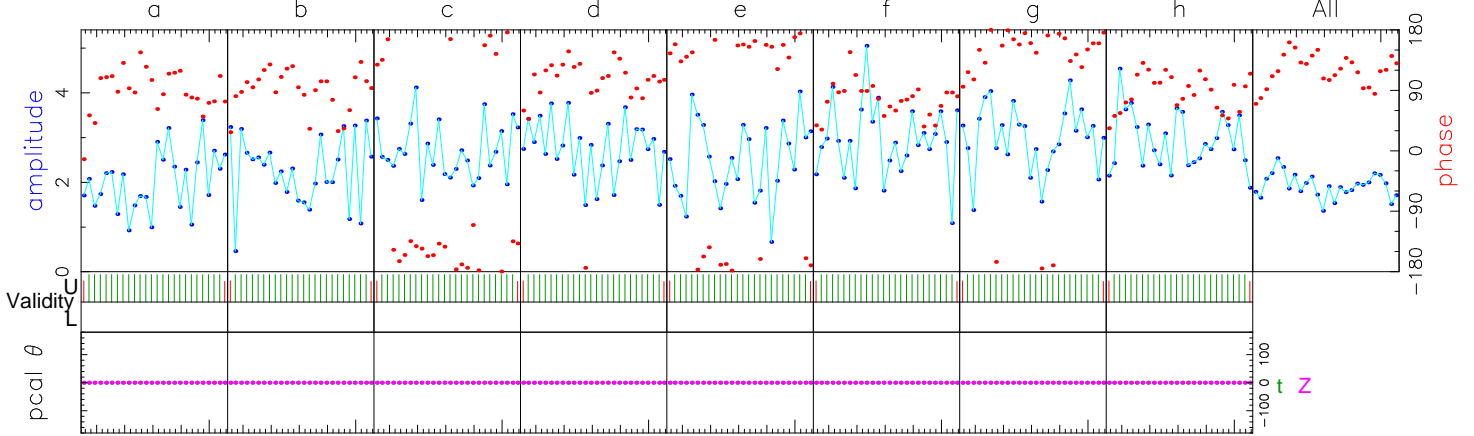
Fringe quality 5

SNR 35.2
Int time 51.030
Amp 1.803
Phase 119.6
PFD 0.0e+00
Delays (us)
SBD 0.001529
MBD 0.002965
Fringe rate (Hz)
0.000676
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c221c
Yr:day 16383
2022:171:230400
2022:171:230414
2021:041:141600
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230414
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

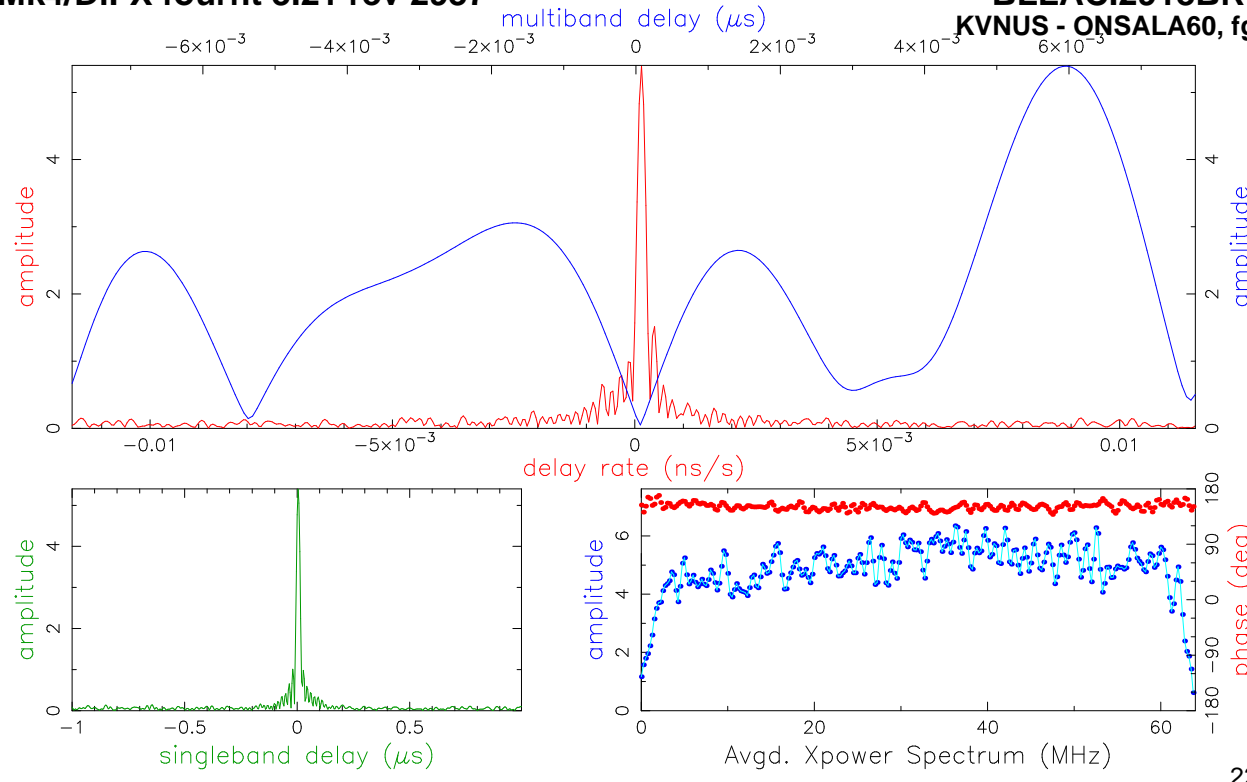


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0		
t	0	0	0	0	0	0	0	0		
Z	0	0	0	0	0	0	0	0		
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
t	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
t	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-7.91245900402E+03	Apriori delay (usec)	-7.91246196912E+03	Resid mbdelay (usec)	2.96509E-03	+/-	3.1E-05
Sband delay (usec)	-7.91246044037E+03	Apriori clock (usec)	2.0419979E+08	Resid sbdelay (usec)	1.52875E-03	+/-	2.4E-04
Phase delay (usec)	-7.91246196526E+03	Apriori clockrate (us/s)	1.3700000E-08	Resid phdelay (usec)	3.85777E-06	+/-	1.0E-07
Delay rate (us/s)	-1.18938079446E+00	Apriori rate (us/s)	-1.18938080231E+00	Resid rate (us/s)	7.85349E-09	+/-	3.5E-09
Total phase (deg)	112.5	Apriori accel (us/s/s)	1.77958589982E-05	Resid phase (deg)	119.6	+/-	3.3

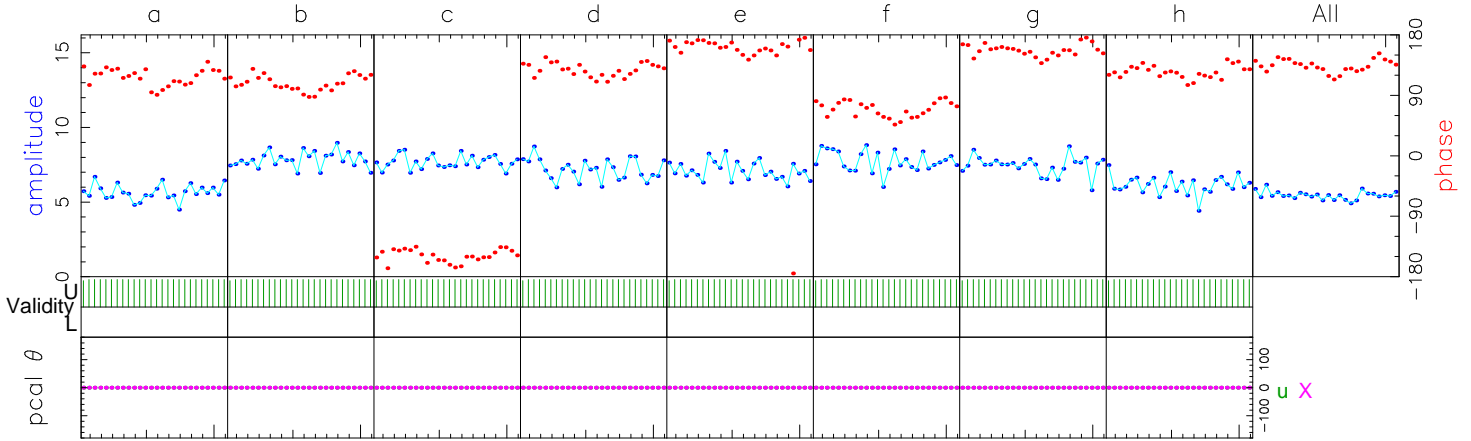
ph/seg (deg)	23.1	RMS	23.1	Theor.	8.3	Amplitude	1.803 +/- 0.051	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	16.1	Search (256X32)	1.776	Inc. seg. avg.	1.909	Inc. frq. avg.	2.356	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	48.1	Interp.	0.000	Inc. seg. avg.	1.909	Inc. frq. avg.	2.356	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	36.2	Search (256X32)	1.776	Inc. seg. avg.	1.909	Inc. frq. avg.	2.356	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.012 0.012	
		Search (256X32)	1.776	Inc. seg. avg.	1.909	Inc. frq. avg.	2.356	Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

t: az 302.2 el 33.3 pa 73.5 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) 9254.949 -952.053 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/tZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/tZ.W.41.2918BR



Fringe quality 6
 SNR 119.0
 Int time 64.894
 Amp 5.402
 Phase 134.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.004499
 MBD 0.005969
 Fringe rate (Hz) 0.010632
 Ion TEC 0.000
 Ref freq (MHz) 86140.0000
 AP (sec) 0.500
 Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054501.00
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230412
 2021:041:141600
 RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec

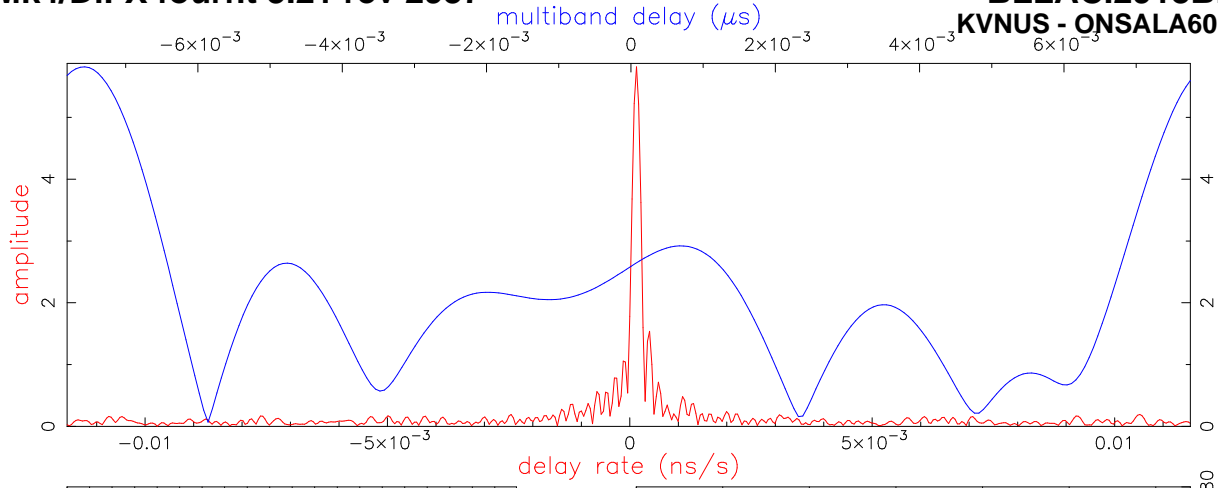


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	117.3	108.0	-148.9	127.6	162.9	69.2	157.1	125.0	Phase	134.1
	5.5	7.7	7.6	7.1	7.0	7.6	7.4	6.1	Ampl.	7.0
	259.2	258.0	257.8	257.3	257.1	257.7	257.8	258.8	Sbd box	258.2
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) -7.37054349688E+03 Apriori delay (usec) -7.37054946588E+03 Resid mbdelay (usec) 5.96900E-03 +/- 9.1E-06
 Sband delay (usec) -7.37054496688E+03 Apriori clock (usec) -3.4033367E+01 Resid sbdelay (usec) 4.49900E-03 +/- 7.2E-05
 Phase delay (usec) -7.37054946155E+03 Apriori clockrate (us/s) 1.7342000E-06 Resid phdelay (usec) 4.32568E-06 +/- 3.1E-08
 Delay rate (us/s) -1.31006246417E+00 Apriori rate (us/s) -1.31006258760E+00 Resid rate (us/s) 1.23427E-07 +/- 8.3E-10
 Total phase (deg) -222.6 Apriori accel (us/s/s) 1.91358172815E-05 Resid phase (deg) 134.1 +/- 1.0

RMS Theor. Amplitude 5.402 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 9.2 2.5 Search (512X32) 5.331 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 5.0 4.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 45.8 1.4 Inc. seg. avg. 5.456 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 32.5 2.4 Inc. frq. avg. 6.995 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00
 u: az 301.8 el 32.6 pa 69.0 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 10193.891 -490.078 simultaneous interpolator

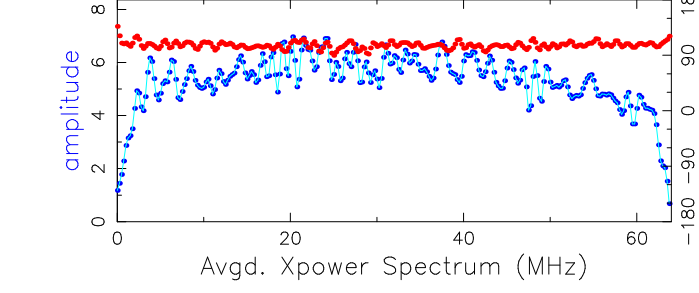
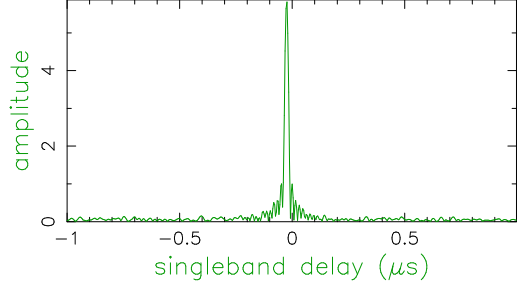
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/uX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/uX.W.24.2918BR



Fringe quality 6

SNR 129.4
Int time 64.894
Amp 5.874
Phase -90.7
PFD 0.0e+00
Delays (us)
SBD -0.024722
MBD -0.007608
Fringe rate (Hz) 0.010666
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

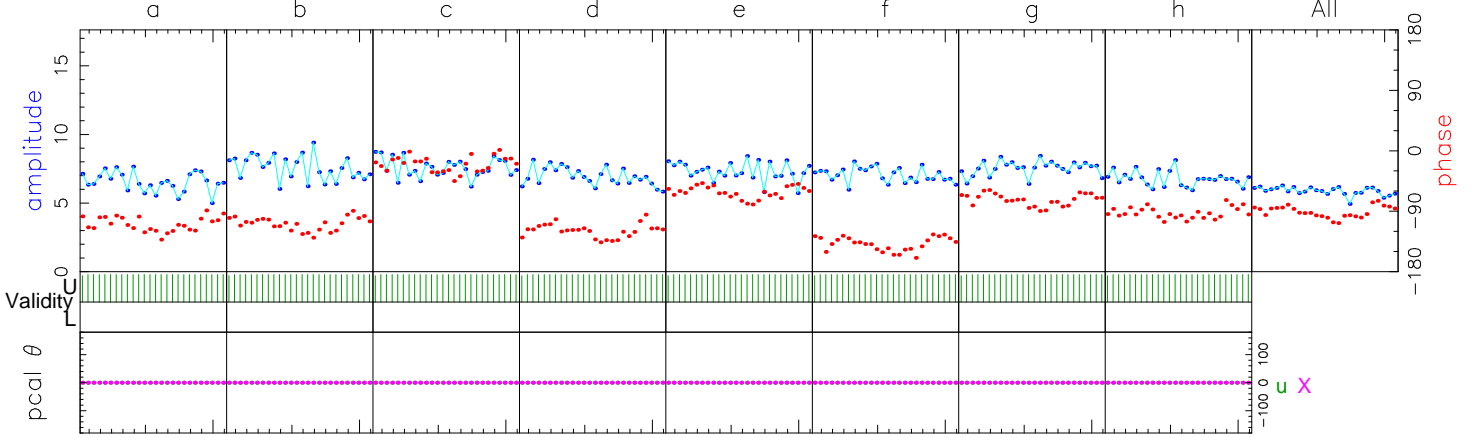
Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"



amplitude

phase (deg)

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec

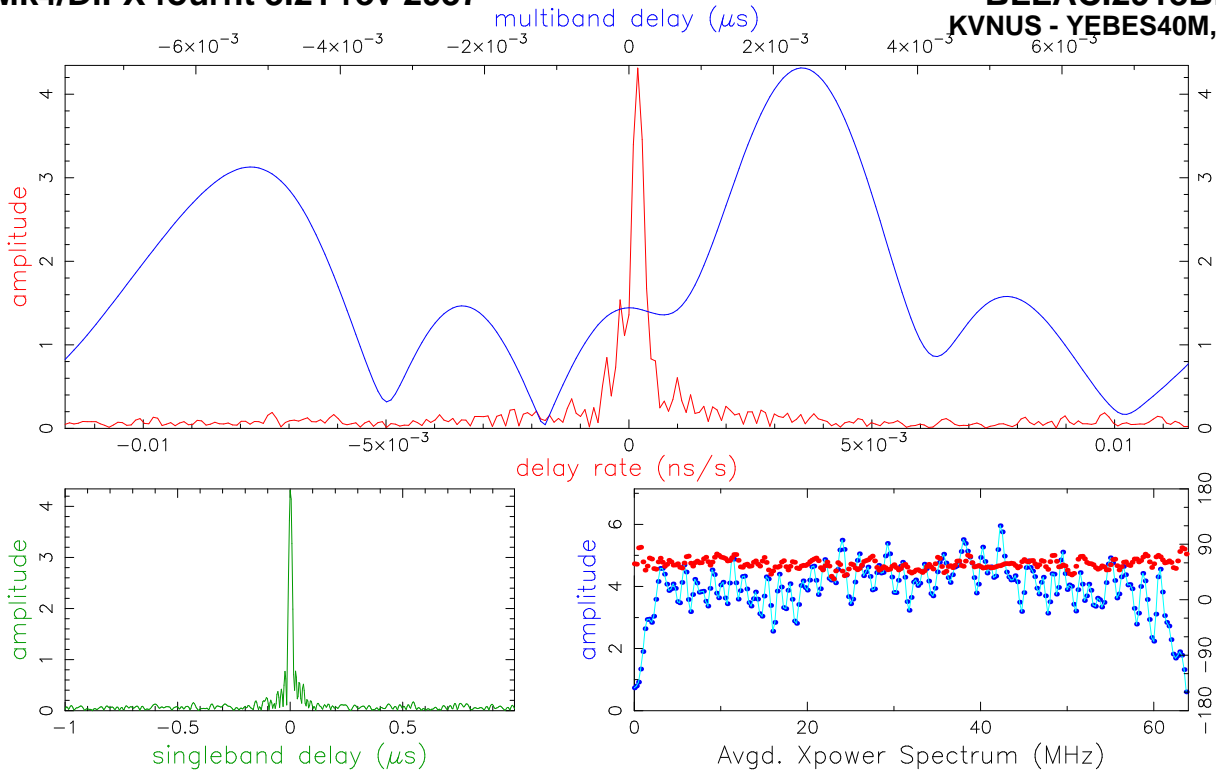


	a	b	c	d	e	f	g	h	All
86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	86524.00	86588.00
-108.6	-108.6	-19.9	-118.6	-61.8	-138.7	-72.7	-92.4	-108.6	-90.7
6.4	7.5	7.4	6.8	7.3	7.0	7.5	6.7	7.1	7.1
252.1	250.4	250.3	249.7	250.1	250.0	250.5	251.2	250.7	250.7
U/L 130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0
u 0	0	0	0	0	0	0	0	0	0
X 0	0	0	0	0	0	0	0	0	0
u:X 0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0
u 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
X 1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
u W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL
X W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	W08UL	W09UL

Group delay (usec)(sbd) -7.37057269875E+03 Apriori delay (usec) -7.37054946588E+03 Resid mbdelay (usec) -7.60787E-03 +/- 8.4E-06
 Sband delay (usec) -7.37057418763E+03 Apriori clock (usec) -3.4033367E+01 Resid sbdelay (usec) -2.47217E-02 +/- 6.7E-05
 Phase delay (usec) -7.37054946880E+03 Apriori clockrate (us/s) 1.7342000E-06 Resid phdelay (usec) -2.92471E-06 +/- 2.9E-08
 Delay rate (us/s) -1.31006246378E+00 Apriori rate (us/s) -1.31006258760E+00 Resid rate (us/s) 1.23822E-07 +/- 7.6E-10
 Total phase (deg) -87.4 Apriori accel (us/s/s) 1.91358172815E-05 Resid phase (deg) -90.7 +/- 0.9

RMS Theor. Amplitude 5.874 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 8.4 2.3 Search (512X32) 5.663 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 4.9 3.9 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 40.6 1.3 Inc. seg. avg. 5.876 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 21.4 2.2 Inc. frq. avg. 7.071 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

u: az 301.8 el 32.6 pa 69.0 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 10193.891 -490.078 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/uX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/uX.W.9.2918BR

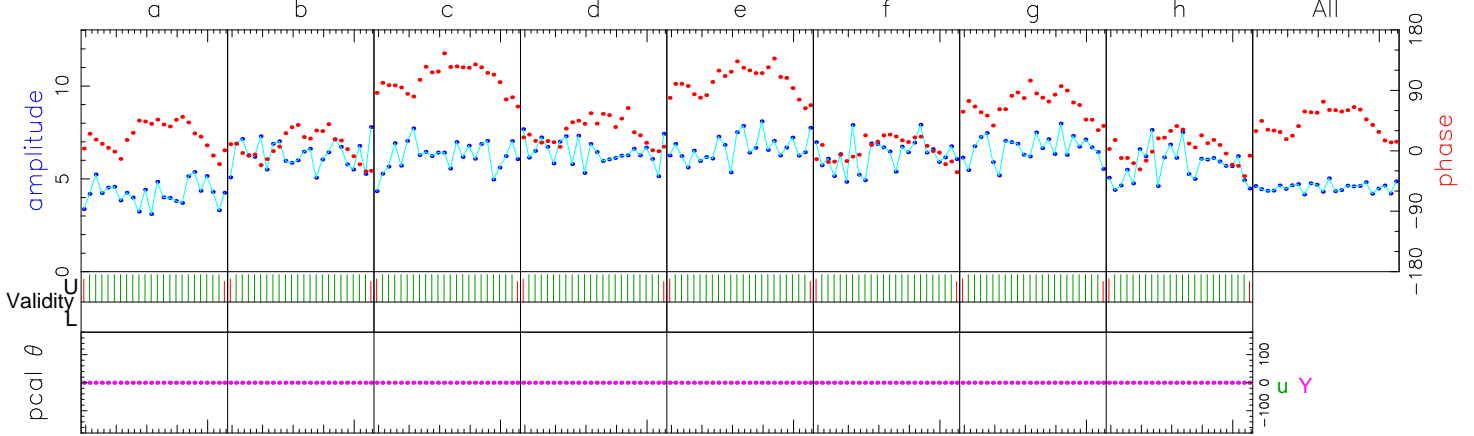


Fringe quality 5

SNR 81.6
Int time 47.177
Amp 4.344
Phase 42.4
PFD 0.0e+00
Delays (us)
SBD 0.001101
MBD 0.002421
Fringe rate (Hz) 0.012301
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054518.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

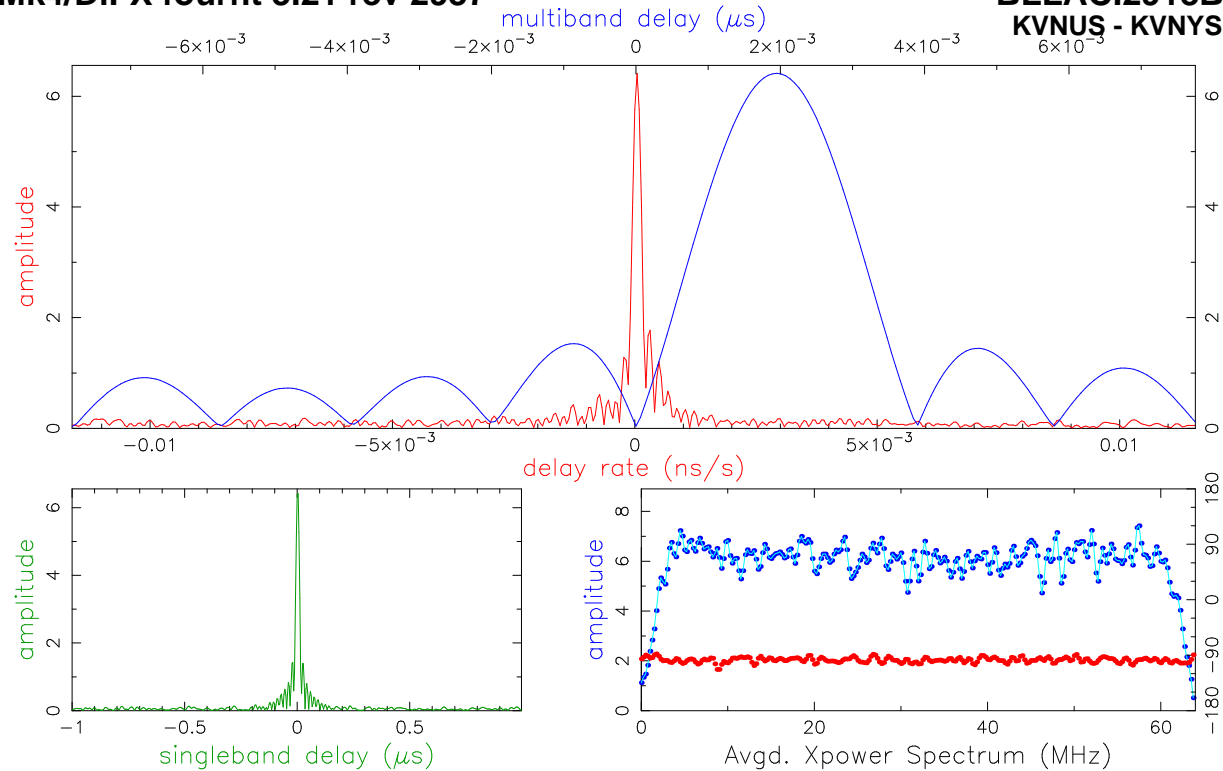
Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All		
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0				
u	0	0	0	0	0	0	0	0	Ampl.	5.7		
Y	0	0	0	0	0	0	0	0	Sbd box	257.3		
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used			
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs			
u	1000	1000	1000	1000	1000	1000	1000	1000	PC phase			
Y	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC			
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	PC amp			
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids			
									Tracks			
									Tracks			
Group delay (usec)(sbd)	-4.85409366830E+03				-4.85409608958E+03				Resid mbdelay (usec)	2.42128E-03 +/- 1.3E-05		
Sband delay (usec)	-4.85409498833E+03				5.9317169E+01				Resid sbdelay (usec)	1.10125E-03 +/- 1.1E-04		
Phase delay (usec)	-4.85409608822E+03				3.6871999E-06				Resid phdelay (usec)	1.36651E-06 +/- 4.5E-08		
Delay rate (us/s)	-1.62712987657E+00				-1.62713001936E+00				Resid rate (us/s)	1.42797E-07 +/- 1.7E-09		
Total phase (deg)			-14.0		2.09174479992E-05				Resid phase (deg)	42.4 +/- 1.4		
	RMS	Theor.	Amplitude	4.344 +/- 0.053					PCal mode: MANUAL, MANUAL	PC period (AP's) 5, 5		
ph/seg (deg)	18.3	3.4	Search (256X32)	4.135					PCal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000		
amp/seg (%)	6.8	6.0	Interp.	0.000					Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008	
ph/frq (deg)	47.7	2.0	Inc. seg. avg.	4.533					Sample rate(MISamp/s): 128	dr window (ns/s) -0.012 0.012		
amp/frq (%)	36.2	3.5	Inc. frq. avg.	5.742					Data rate(Mb/s): 2048	nlags: 256	t_cohere infinite	ion window (TEC) 0.00 0.00

u: az 301.8 el 32.6 pa 69.0 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 12657.324 863.394 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/uY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/uY.W.14.2918BR

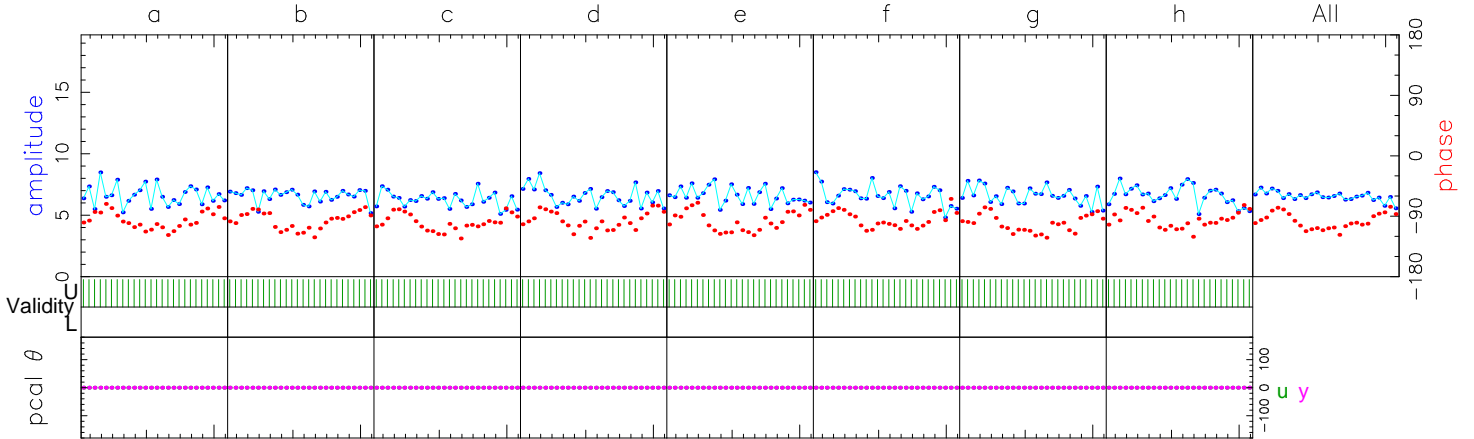


Fringe quality 8

SNR 144.6
Int time 64.988
Amp 6.558
Phase -96.9
PFD 0.0e+00
Delays (us)
SBD 0.002024
MBD 0.001950
Fringe rate (Hz) 0.003911
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230412
2021:041:141600
RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-95.6	-96.2	-99.6	-96.2	-96.6	-94.6	-100.9	-95.3	Phase	-96.9
	6.5	6.4	6.1	6.4	6.4	6.5	6.5	6.5	Ampl.	6.4
	257.4	257.6	257.5	257.6	257.5	257.4	257.6	257.5	Sbd box	257.5
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.80499550162E+02	Apriori delay (usec)	-7.80501500424E+02	Resid mbdelay (usec)	1.95026E-03	+/-	7.5E-06
Sband delay (usec)	-7.80499475924E+02	Apriori clock (usec)	3.7675728E+01	Resid sbdelay (usec)	2.02450E-03	+/-	6.0E-05
Phase delay (usec)	-7.80501503547E+02	Apriori clockrate (us/s)	2.3102000E-06	Resid phdelay (usec)	-3.12359E-06	+/-	2.6E-08
Delay rate (us/s)	-3.23218199537E-02	Apriori rate (us/s)	-3.23218653594E-02	Resid rate (us/s)	4.54057E-08	+/-	6.8E-10
Total phase (deg)	-185.6	Apriori accel (us/s/s)	2.19866067492E-06	Resid phase (deg)	-96.9	+/-	0.8

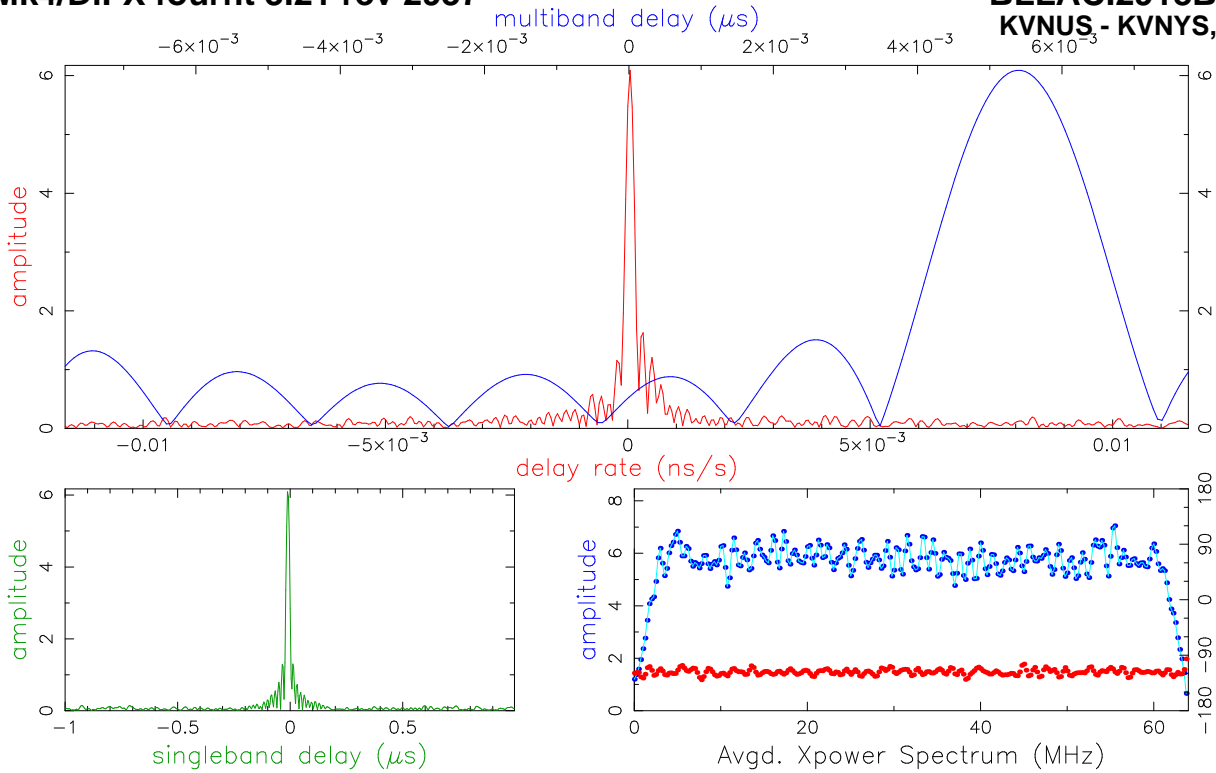
ph/seg (deg)	11.5	Theor.	2.0	Amplitude	6.558 +/- 0.045	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	5.5	Search (512X32)	6.413	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	2.4	Inc. seg. avg.	6.542	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	2.7	Inc. frq. avg.	6.417	Sample rate (MSamp/s):	128	ion window (TEC)	0.00	0.00	

u: az 301.8 el 32.6 pa 69.0 y: az 299.9 el 35.2 pa 68.1 u,v (fr/asec) 255.106 -31.387 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/uy..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/uy.W.29.2918BR

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2918BR, No0066, uy
KVNU_S - KVNY_S, fgroup W, pol RR

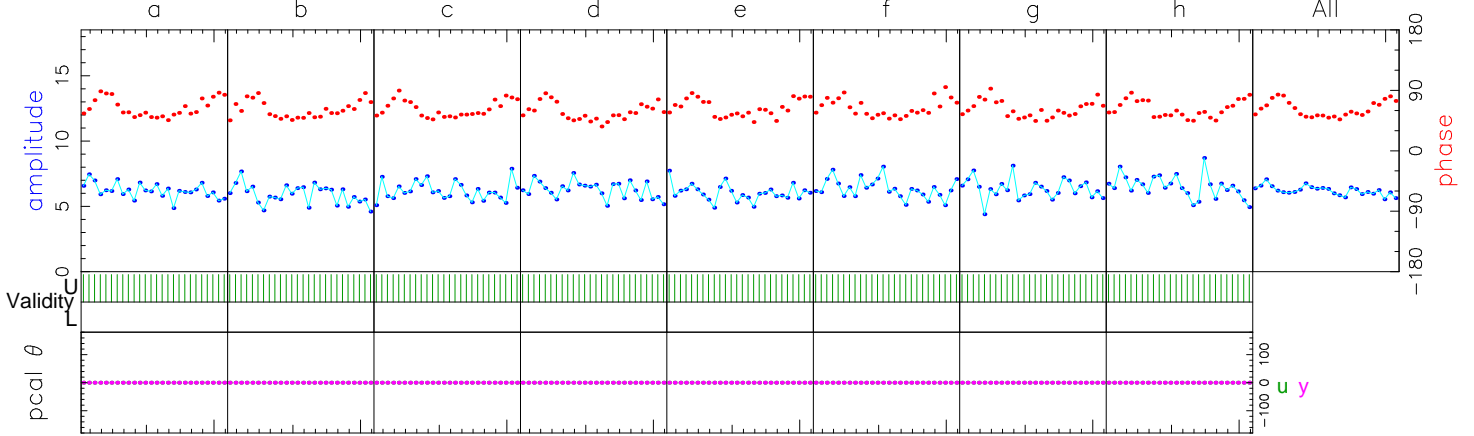


Fringe quality 8

SNR 136.1
Int time 64.988
Amp 6.175
Phase 62.2
PFD 0.0e+00
Delays (us)
SBD -0.010257
MBD 0.005398
Fringe rate (Hz)
0.003956
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Yr:day 16383
Exp# 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec

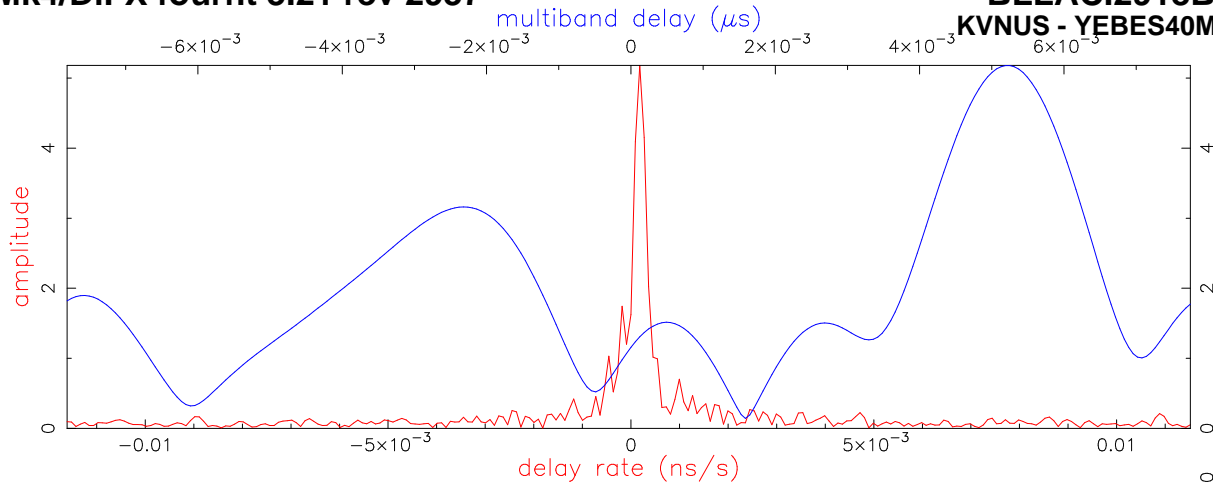


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	64.4	60.8	62.6	57.7	64.0	64.3	62.0	62.0	Phase	62.2
	6.0	5.8	6.1	6.1	5.9	6.2	6.2	6.4	Ampl.	6.1
	254.3	254.4	254.3	254.5	254.3	254.4	254.3	254.4	Sbd box	254.4
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
y	0	0	0	0	0	0	0	0	PC freqs	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.80511727006E+02		Apriori delay (usec)	-7.8051500424E+02	Resid mbdelay (usec)	5.39842E-03	+/-	8.0E-06		
Sband delay (usec)	-7.80511757174E+02		Apriori clock (usec)	3.7675728E+01	Resid sbdelay (usec)	-1.02567E-02	+/-	6.3E-05		
Phase delay (usec)	-7.80501498417E+02		Apriori clockrate (us/s)	2.3102000E-06	Resid phdelay (usec)	2.00651E-06	+/-	2.7E-08		
Delay rate (us/s)	-3.23218194371E-02		Apriori rate (us/s)	-3.23218653594E-02	Resid rate (us/s)	4.59223E-08	+/-	7.2E-10		
Total phase (deg)		-26.5	Apriori accel (us/s/s)	2.19866067492E-06	Resid phase (deg)	62.2	+/-	0.8		

RMS Theor. Amplitude 6.175 +/- 0.045 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 11.5 2.1 Search (512X32) 6.091 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 5.5 3.7 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 2.4 1.2 Inc. seg. avg. 6.212 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 3.1 2.1 Inc. frq. avg. 6.096 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

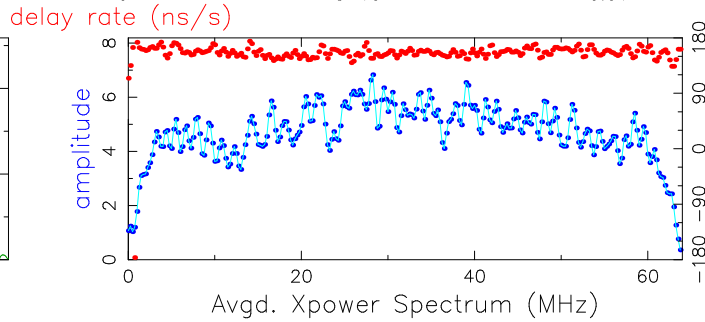
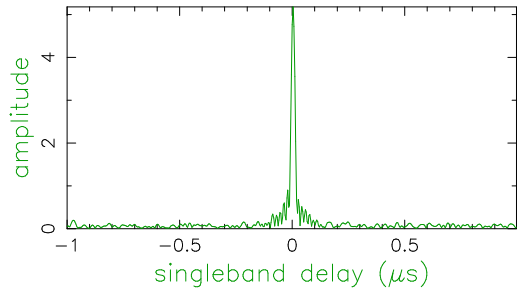
u: az 301.8 el 32.6 pa 69.0 y: az 299.9 el 35.2 pa 68.1 u,v (fr/asec) 255.106 -31.387 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/uy..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/uy.W.38.2918BR



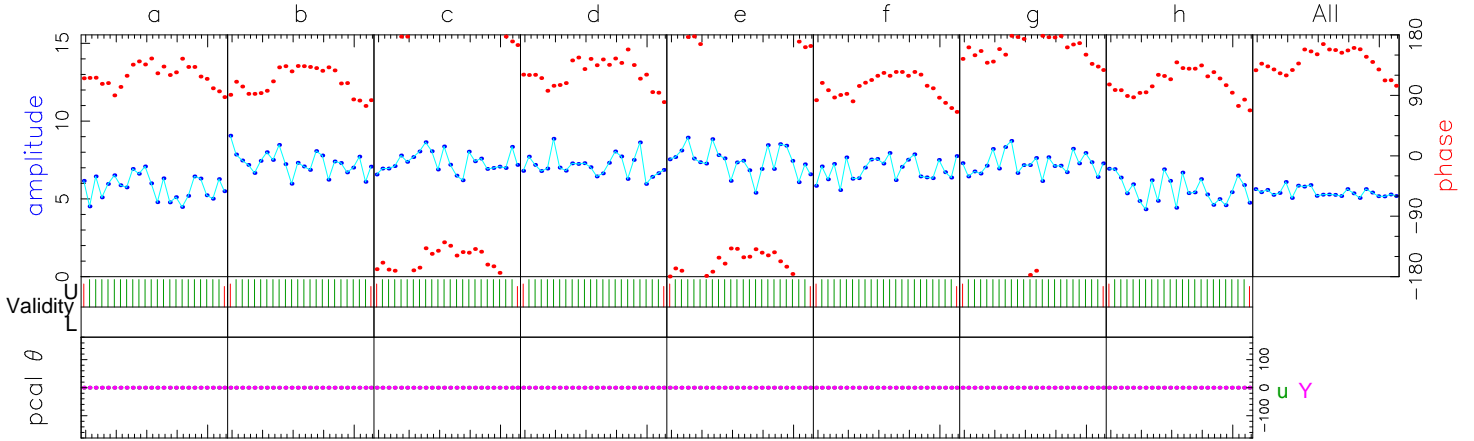
Fringe quality 5

SNR 97.3
Int time 47.177
Amp 5.182
Phase 140.2
PFD 0.0e+00
Delays (us)
SBD 0.003817
MBD 0.005214
Fringe rate (Hz)
0.012349
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c221c
Yr:day 16383
Start 2022:093
Stop 2022:093
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

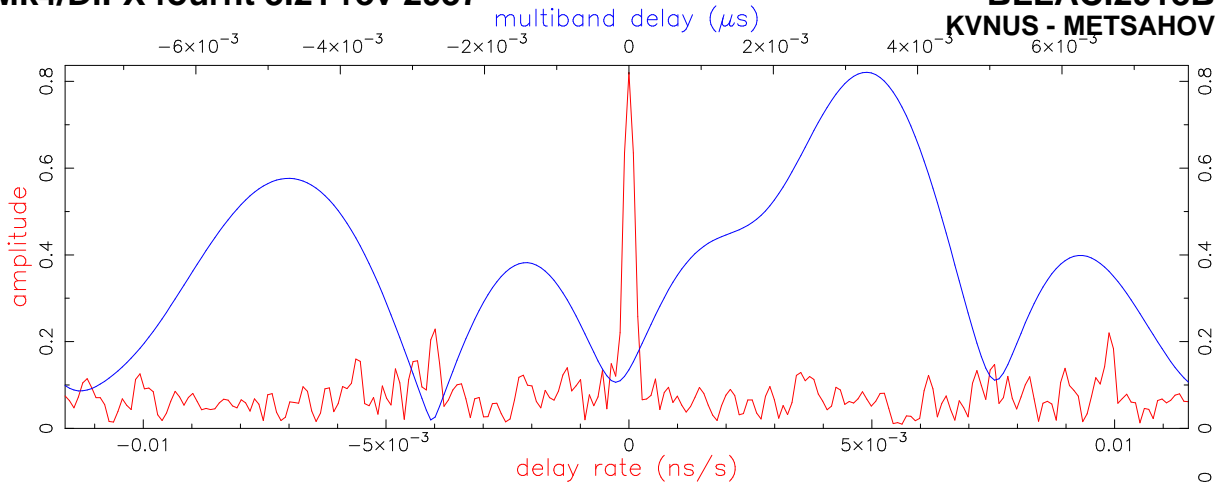
Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	119.6	110.2	-159.5	123.3	-165.6	103.0	161.0	107.2	Phase	140.2
	5.5	6.9	7.0	6.8	7.1	6.6	7.0	5.3	Ampl.	6.5
	259.6	258.0	257.4	257.4	257.3	257.2	257.6	257.2	Sbd box	258.0
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.85409087540E+03	Apriori delay (usec)	-4.85409608958E+03	Resid mbdelay (usec)	5.21418E-03	+/-	1.1E-05
Sband delay (usec)	-4.85409227308E+03	Apriori clock (usec)	5.9317169E+01	Resid sbdelay (usec)	3.81650E-03	+/-	8.9E-05
Phase delay (usec)	-4.85409608506E+03	Apriori clockrate (us/s)	3.6871999E-06	Resid phdelay (usec)	4.52230E-06	+/-	3.8E-08
Delay rate (us/s)	-1.62712987601E+00	Apriori rate (us/s)	-1.62713001936E+00	Resid rate (us/s)	1.43354E-07	+/-	1.4E-09
Total phase (deg)		Apriori accel (us/s/s)	2.09174479992E-05	Resid phase (deg)	140.2	+/-	1.2

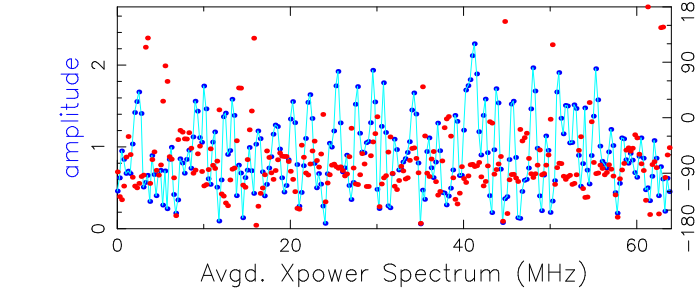
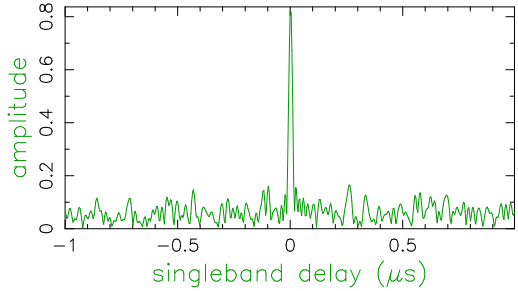
ph/seg (deg)	RMS 17.3	Theor. 2.9	Amplitude Search (256X32)	5.182 +/- 0.053	4.913	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5	
amp/seg (%)	7.1	5.0	Interp.	0.000	5.416	Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000	
ph/frq (deg)	43.0	1.7	Inc. seg. avg.	5.416	6.513	Bits/sample: 2x2	SampCntNorm: enabled	mb window (us) -0.008 0.008
amp/frq (%)	28.5	2.9	Inc. frq. avg.	6.513		Sample rate(MISamp/s): 128	dr window (ns/s) -0.012 0.012	
u: az 301.8 el 32.6 pa 69.0	Y: az 68.1 el 48.4 pa -73.0	u, v (fr/asec)	12657.324 863.394			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite	ion window (TEC) 0.00 0.00



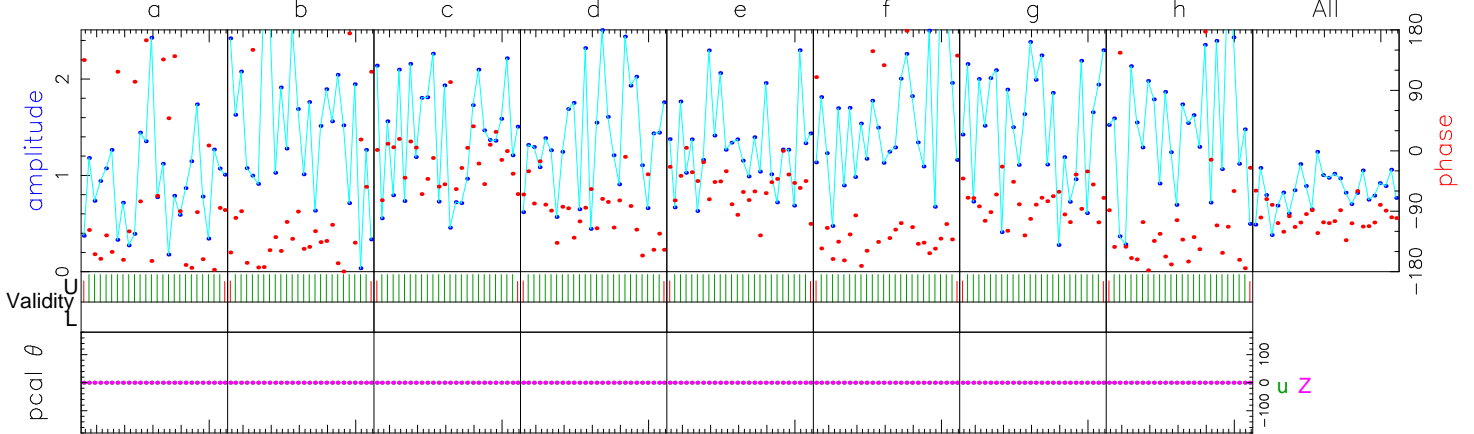
Fringe quality 7

SNR 16.3
Int time 51.030
Amp 0.837
Phase -100.8
PFD 0.0e+00
Delays (us)
SBD 0.001847
MBD 0.003333
Fringe rate (Hz) 0.003030
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"



Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

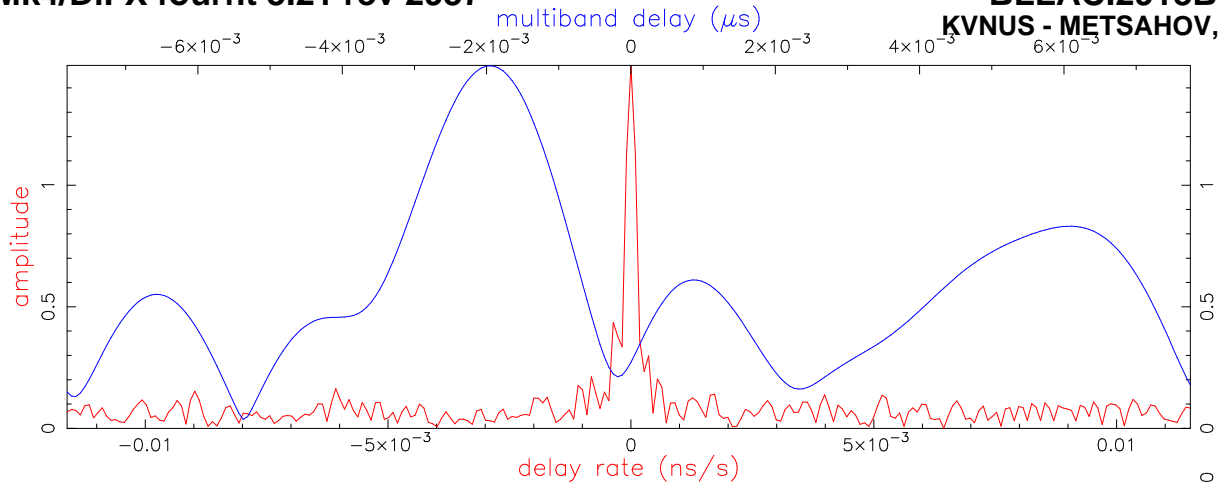


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-146.9	-138.9	-13.3	-89.3	-52.2	-142.4	-79.9	-138.3	Phase	-100.8
	0.6	1.3	1.2	1.1	1.2	1.3	1.4	1.2	Ampl.	1.1
	259.3	257.7	257.0	256.4	256.4	256.8	257.1	257.7	Sbd box	257.5
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
u	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
u:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
u:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
u	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-8.11021823253E+03	Apriori delay (usec)	-8.11022156503E+03	Resid mbdelay (usec)	3.33250E-03	+/-	6.6E-05
Sband delay (usec)	-8.11021971803E+03	Apriori clock (usec)	3.9102726E+01	Resid sbdelay (usec)	1.84700E-03	+/-	5.3E-04
Phase delay (usec)	-8.11022156828E+03	Apriori clockrate (us/s)	2.3239000E-06	Resid phdelay (usec)	-3.25127E-06	+/-	2.3E-07
Delay rate (us/s)	-1.17615734436E+00	Apriori rate (us/s)	-1.17615737954E+00	Resid rate (us/s)	3.51811E-08	+/-	7.6E-09
Total phase (deg)	-321.1	Apriori accel (us/s/s)	2.15114551745E-05	Resid phase (deg)	-100.8	+/-	7.0

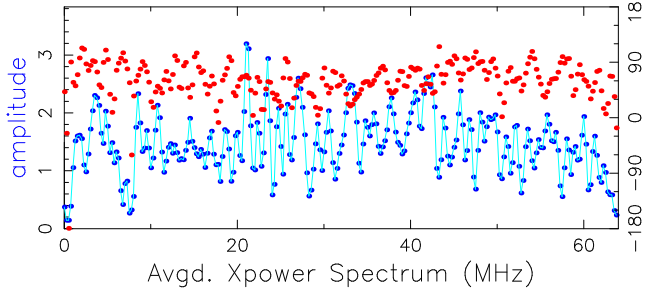
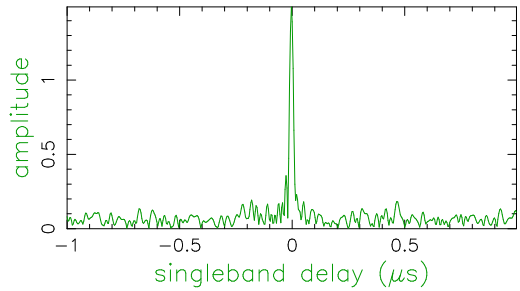
ph/seg (deg)	17.4	Theor.	17.9	Amplitude	0.837 +/- 0.051	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	23.1	Search (256X32)	0.787	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	53.7	Inc. seg. avg.	0.816	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	46.8	Inc. frq. avg.	1.141	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.012	0.012		
				Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00

u: az 301.8 el 32.6 pa 69.0 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) 9160.970 -472.002 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/uZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/uZ.W.21.2918BR



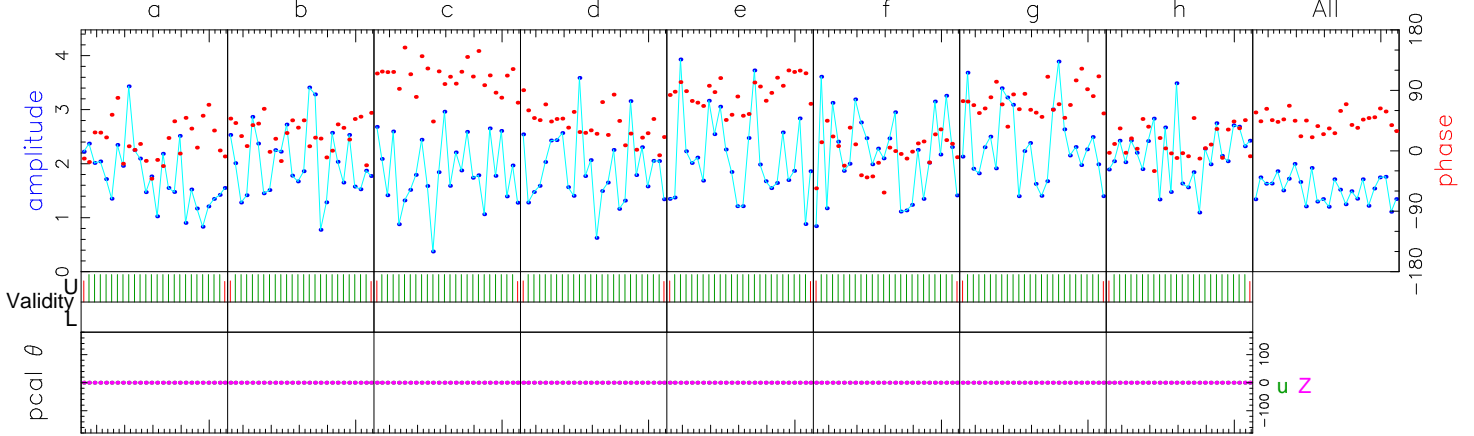
Fringe quality 6

SNR 29.2
Int time 51.030
Amp 1.493
Phase 44.5
PFD 0.0e+00
Delays (us)
SBD -0.003470
MBD -0.001947
Fringe rate (Hz)
0.002690
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500



Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

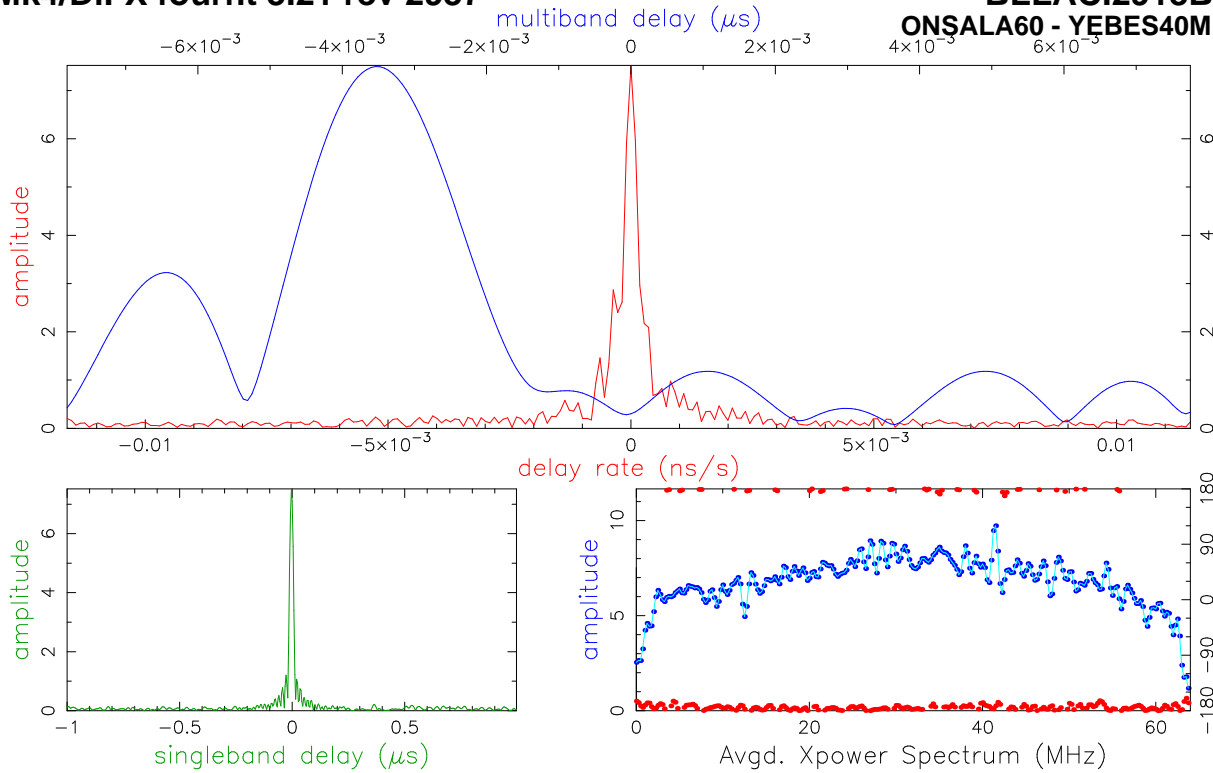
Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0		
u:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
u	1000	1000	1000	1000	1000	1000	1000	1000		
Z	1000	1000	1000	1000	1000	1000	1000	1000		
u	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		

Group delay (usec)(sbd)	-8.11022351175E+03	Apriori delay (usec)	-8.11022156503E+03	Resid mbdelay (usec)	-1.94672E-03	+/-	3.7E-05
Sband delay (usec)	-8.11022503503E+03	Apriori clock (usec)	3.9102726E+01	Resid sbdelay (usec)	-3.47000E-03	+/-	3.0E-04
Phase delay (usec)	-8.11022156360E+03	Apriori clockrate (us/s)	2.3239000E-06	Resid phdelay (usec)	1.43367E-06	+/-	1.3E-07
Delay rate (us/s)	-1.17615734831E+00	Apriori rate (us/s)	-1.17615737954E+00	Resid rate (us/s)	3.12340E-08	+/-	4.3E-09
Total phase (deg)	-175.8	Apriori accel (us/s/s)	2.15114551745E-05	Resid phase (deg)	44.5	+/-	3.9

ph/seg (deg)	13.7	Theor.	10.0	Amplitude	1.493 +/- 0.051	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5		
amp/seg (%)	16.5		17.5	Search (256X32)	1.445	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000		
ph/frq (deg)	44.5		5.6	Inc. seg. avg.	1.512	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008	
amp/frq (%)	29.3		9.7	Inc. frq. avg.	1.877	Sample rate (MSamp/s):	128	dr window (ns/s)	-0.012 0.012		
u: az 301.8 el 32.6 pa 69.0		Z: az 122.3 el 65.0 pa -34.7		u,v (fr/asec)	9160.970 -472.002	Data rate (Mb/s):	2048	nlags: 256	t_cohere infinite	ion window (TEC)	0.00 0.00

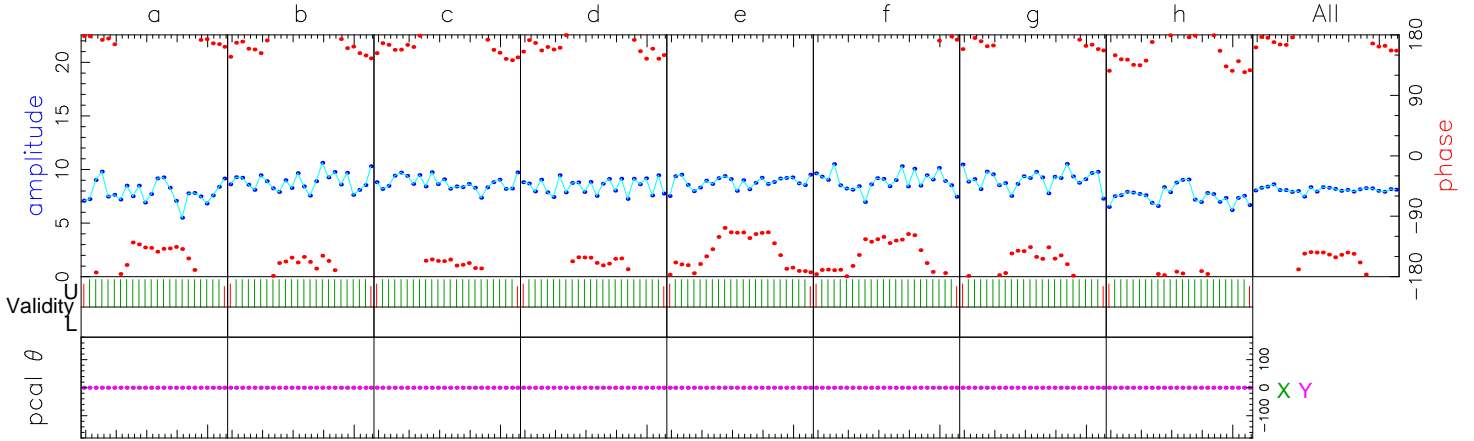


Fringe quality 7

SNR 141.3
Int time 47.177
Amp 7.521
Phase -172.1
PFD 0.0e+00
Delays (us)
SBD -0.003151
MBD -0.003498
Fringe rate (Hz) 0.000828
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054518.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230410
2021:041:141600
RA & Dec (J2000) 22h02m43.291370s +42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-164.5	178.6	176.2	178.1	-143.1	-152.3	-171.9	158.9	Phase	-172.1
	7.2	8.2	8.1	7.8	8.0	8.1	8.4	7.0	Ampl.	7.8
	256.6	255.7	256.3	256.5	256.3	255.9	256.1	255.3	Sbd box	256.2
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd)	2.51644987823E+03	Apriori delay (usec)	2.51645337630E+03	Resid mbdelay (usec)	-3.49806E-03	+/-	7.7E-06
Sband delay (usec)	2.51645022555E+03	Apriori clock (usec)	9.3350540E+01	Resid sbdelay (usec)	-3.15075E-03	+/-	6.1E-05
Phase delay (usec)	2.51645337075E+03	Apriori clockrate (us/s)	1.9530000E-06	Resid phdelay (usec)	-5.55111E-06	+/-	2.6E-08
Delay rate (us/s)	-3.17067422151E-01	Apriori rate (us/s)	-3.17067431763E-01	Resid rate (us/s)	9.61226E-09	+/-	9.5E-10
Total phase (deg)	128.2	Apriori accel (us/s/s)	1.78163071761E-06	Resid phase (deg)	-172.1	+/-	0.8

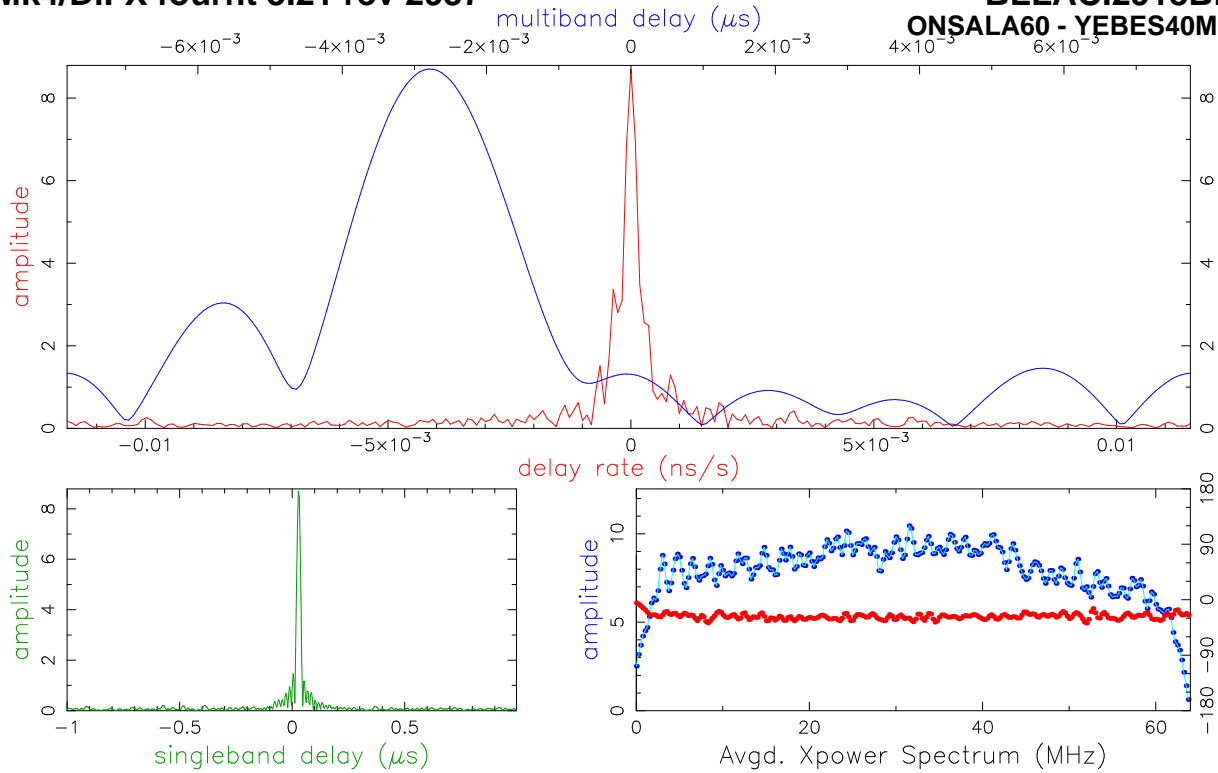
ph/seg (deg)	22.8	RMS	2.0	Theor.	7.521 +/- 0.053	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	8.6	Search (256X32)	7.447	Amplitude		PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	20.2	Interp.	0.000	Search (256X32)		Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	7.7	Inc. seg. avg.	8.123	Interp.		Sample rate (MSamp/s):	128	dr window (ns/s)	-0.012 0.012	
		Inc. frq. avg.	7.846	Inc. seg. avg.		Data rate (Mb/s):	2048	ion window (TEC)	0.00 0.00	

X: az 101.9 el 60.0 pa -45.2 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 2463.434 1353.472 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/XY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/XY.W.13.2918BR

Mk4/DiFX fourfit 3.21 rev 2937

BLLAC.2918BR, No0066, XY
ONŞALA60 - YEBES40M, fgroup W, pol LL

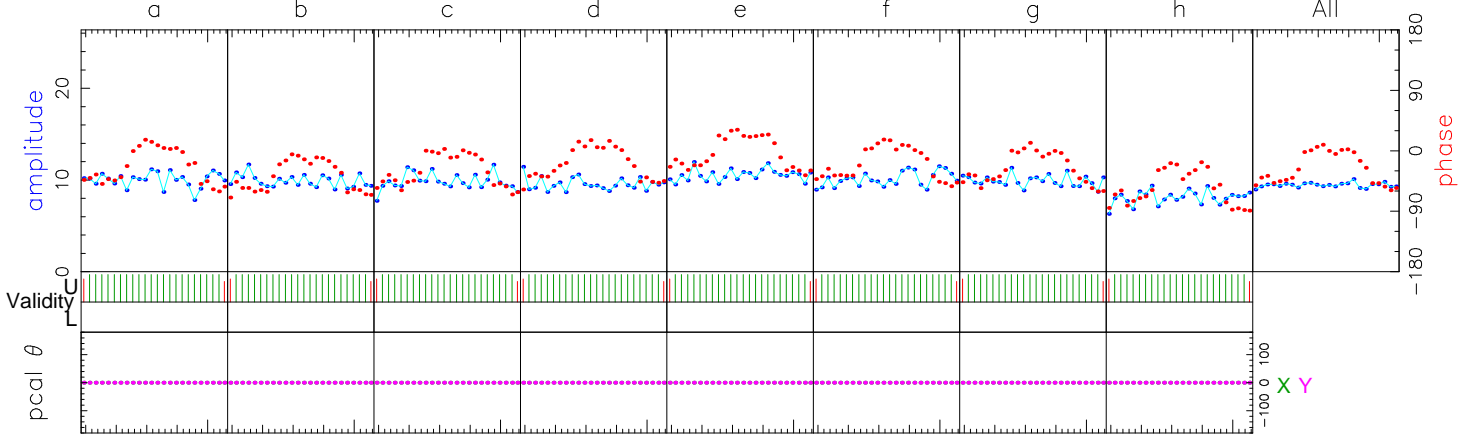


Fringe quality 6

SNR 165.1
Int time 47.177
Amp 8.792
Phase -25.5
PFD 0.0e+00
Delays (us)
SBD 0.028699
MBD -0.002749
Fringe rate (Hz) 0.000965
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

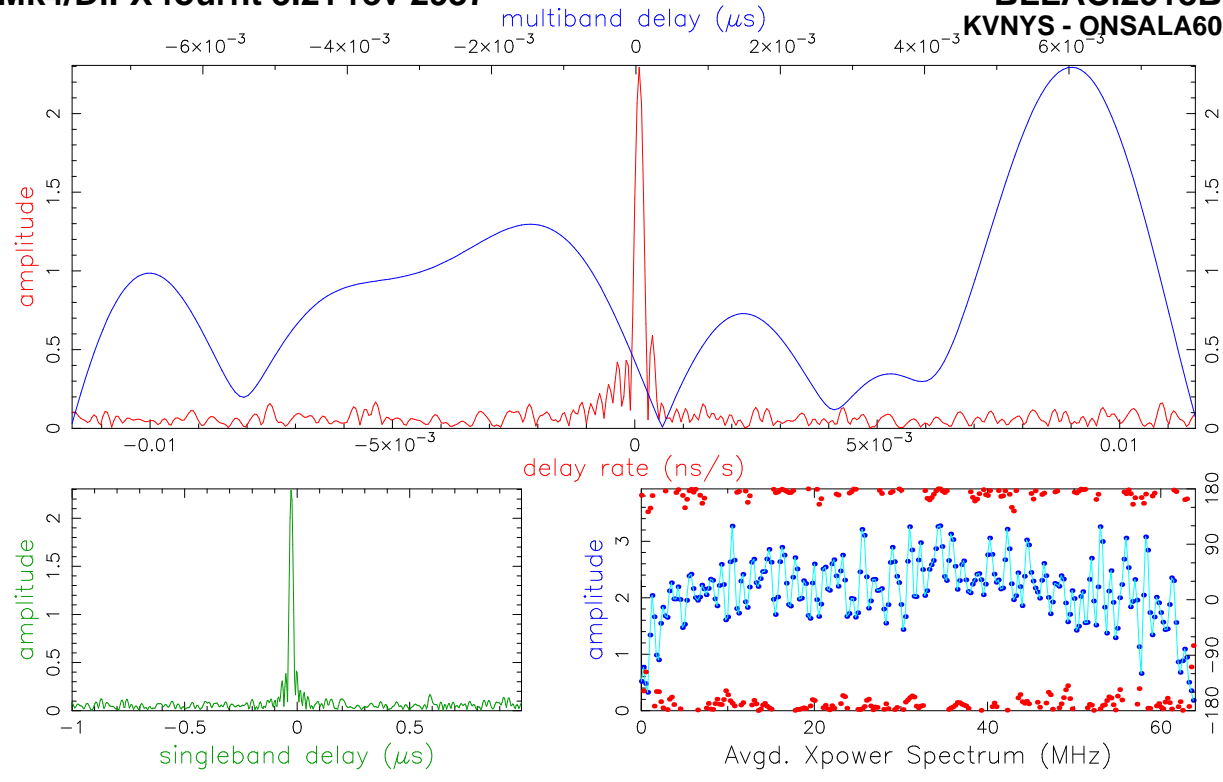
Exp. c221c
Yr:day 16383
Start 2022:093
Stop 2022:093
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230409
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



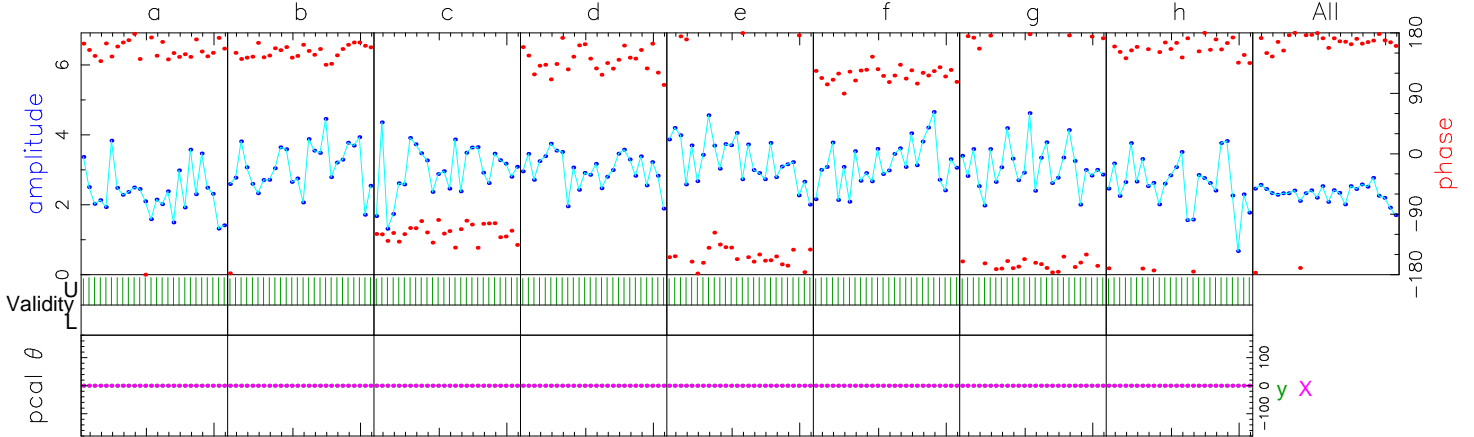
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-23.2	-38.0	-29.1	-19.2	-2.8	-18.6	-25.8	-54.9	Phase	-25.5
	9.1	9.2	9.1	8.8	9.7	9.3	9.2	7.4	Ampl.	9.0
	264.5	264.6	264.1	264.7	264.2	264.1	264.1	263.1	Sbd box	264.3
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
X	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
X:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
X	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	2.51648187752E+03		Apriori delay (usec)		2.51645337630E+03		Resid mbdelay (usec)		-2.74878E-03	+/- 6.6E-06
Sband delay (usec)	2.51648207505E+03		Apriori clock (usec)		9.3350540E+01		Resid sbdelay (usec)		2.86987E-02	+/- 5.2E-05
Phase delay (usec)	2.51645337547E+03		Apriori clockrate (us/s)		1.9530000E-01		Resid phdelay (usec)		-8.23576E-07	+/- 2.2E-08
Delay rate (us/s)	-3.17067420560E-01		Apriori rate (us/s)		-3.17067431763E-01		Resid rate (us/s)		1.12027E-08	+/- 8.2E-10
Total phase (deg)	274.8		Apriori accel (us/s/s)		1.78163071761E-06		Resid phase (deg)		-25.5	+/- 0.7

ph/seg (deg) 23.0 1.7 Search (256X32) 8.603 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 8.0 3.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 16.5 1.0 Inc. seg. avg. 9.448 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 7.6 1.7 Inc. frq. avg. 8.956 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_coherence infinite dr window (ns/s) -0.012 0.012
X: az 101.9 el 60.0 pa -45.2 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 2463.434 1353.472 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/XY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/XY.W.2.2918BR



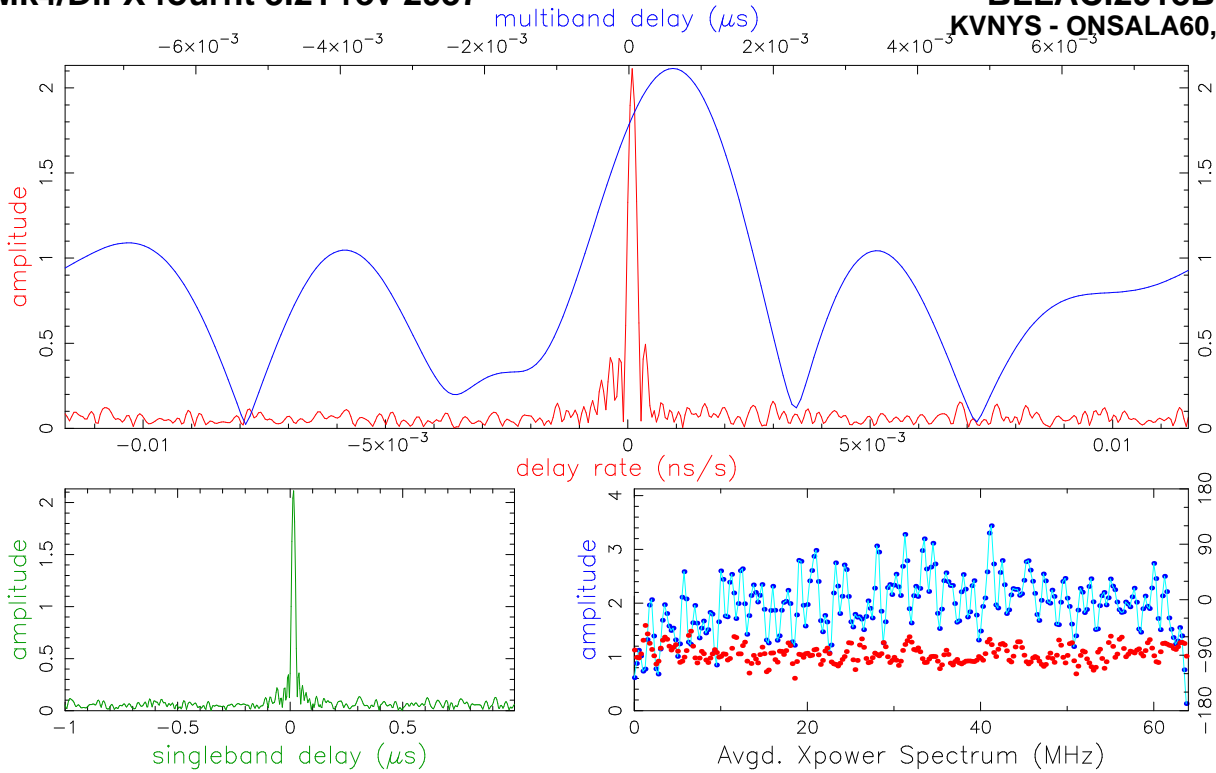
Fringe quality 6
 SNR 50.8
 Int time 64.894
 Amp 2.306
 Phase 168.9
 PFD 0.0e+00
 Delays (us)
 SBD -0.026392
 MBD 0.006056
 Fringe rate (Hz)
 0.006501
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500
 Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054501.00
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230413
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0		
y	0	0	0	0	0	0	0	0	Ampl.	2.9
X	0	0	0	0	0	0	0	0	Sbd box	250.2
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	APs used	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC freqs	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC phase	
X	1000	1000	1000	1000	1000	1000	1000	1000	Mani PC	
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	PC amp	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
									Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.59007315912E+03		Apriori delay (usec)	-6.59004796546E+03	Resid mbdelay (usec)	6.05634E-03	+/-	2.1E-05		
Sband delay (usec)	-6.59007435696E+03		Apriori clock (usec)	-7.1709091E+01	Resid sbdelay (usec)	-2.63915E-02	+/-	1.7E-04		
Phase delay (usec)	-6.59004796001E+03		Apriori clockrate (us/s)	-5.7600002E-07	Resid phdelay (usec)	5.44674E-06	+/-	7.3E-08		
Delay rate (us/s)	-1.27774064677E+00		Apriori rate (us/s)	-1.27774072224E+00	Resid rate (us/s)	7.54673E-08	+/-	1.9E-09		
Total phase (deg)		-99.1	Apriori accel (us/s/s)	1.69371566066E-05	Resid phase (deg)	168.9	+/-	2.3		

ph/seg (deg) 10.1 5.8 Search (512X32) 2.239 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 9.8 10.0 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 43.1 3.2 Inc. seg. avg. 2.317 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 27.3 5.6 Inc. frq. avg. 2.865 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 y: az 299.9 el 35.2 pa 68.1 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 9938.785 -458.691 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/yX...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/yX.W.33.2918BR

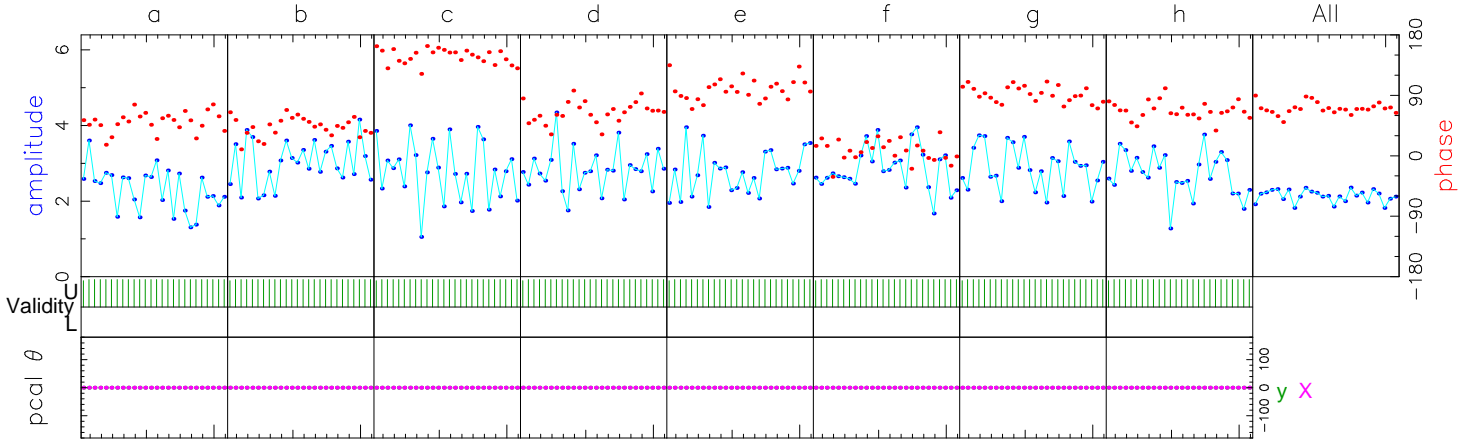


Fringe quality 6

SNR 47.0
Int time 64.894
Amp 2.132
Phase 70.5
PFD 0.0e+00
Delays (us)
SBD 0.014391
MBD 0.000574
Fringe rate (Hz) 0.006721
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

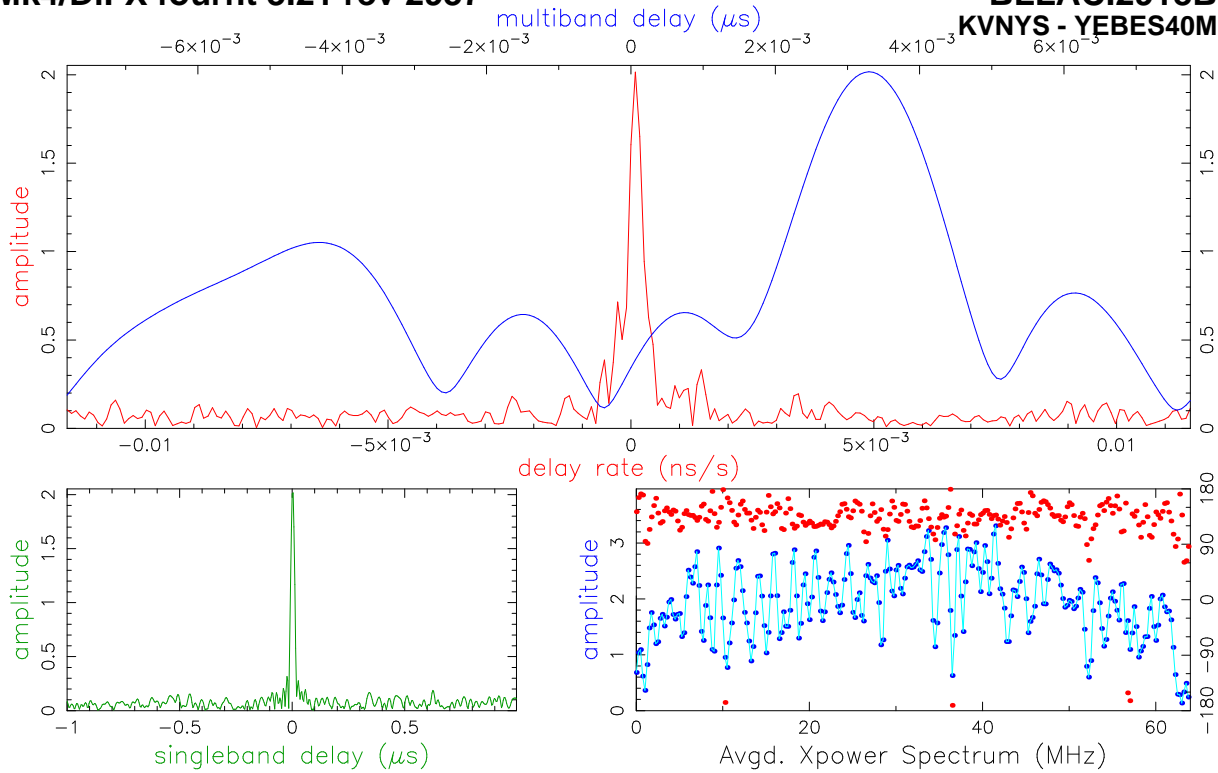
Exp. c221c
Yr:day 2022:093
Start 054501.00
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 5 APs / seg (2.50 sec / seg.), time ticks 5 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	49.5	43.8	148.3	64.6	98.5	8.5	92.4	67.3	Phase	70.5
	2.2	2.9	2.7	2.7	2.7	2.8	2.8	2.6	Ampl.	2.7
	262.0	260.6	260.3	259.8	259.9	260.4	260.5	261.2	Sbd box	260.7
U/L	130/0	130/0	130/0	130/0	130/0	130/0	130/0	130/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-6.59003176678E+03		Apriori delay (usec)		-6.59004796546E+03		Resid mbdelay (usec)		5.73680E-04	+/- 2.3E-05
Sband delay (usec)	-6.59003357396E+03		Apriori clock (usec)		-7.1709091E+01		Resid sbdelay (usec)		1.43915E-02	+/- 1.8E-04
Phase delay (usec)	-6.59004796318E+03		Apriori clockrate (us/s)		-5.7600002E-07		Resid phdelay (usec)		2.27452E-06	+/- 7.9E-08
Delay rate (us/s)	-1.27774064422E+00		Apriori rate (us/s)		-1.27774072224E+00		Resid rate (us/s)		7.80241E-08	+/- 2.1E-09
Total phase (deg)			Apriori accel (us/s/s)		1.69371566066E-05		Resid phase (deg)		70.5	+/- 2.4

ph/seg (deg) 8.5 6.2 Search (512X32) 2.086 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
amp/seg (%) 7.4 10.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
ph/frq (deg) 45.4 3.5 Inc. seg. avg. 2.124 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
amp/frq (%) 27.7 6.0 Inc. frq. avg. 2.685 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
y: az 299.9 el 35.2 pa 68.1 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 9938.785 -458.691 simultaneous interpolator
Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/yX...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/yX.W.40.2918BR

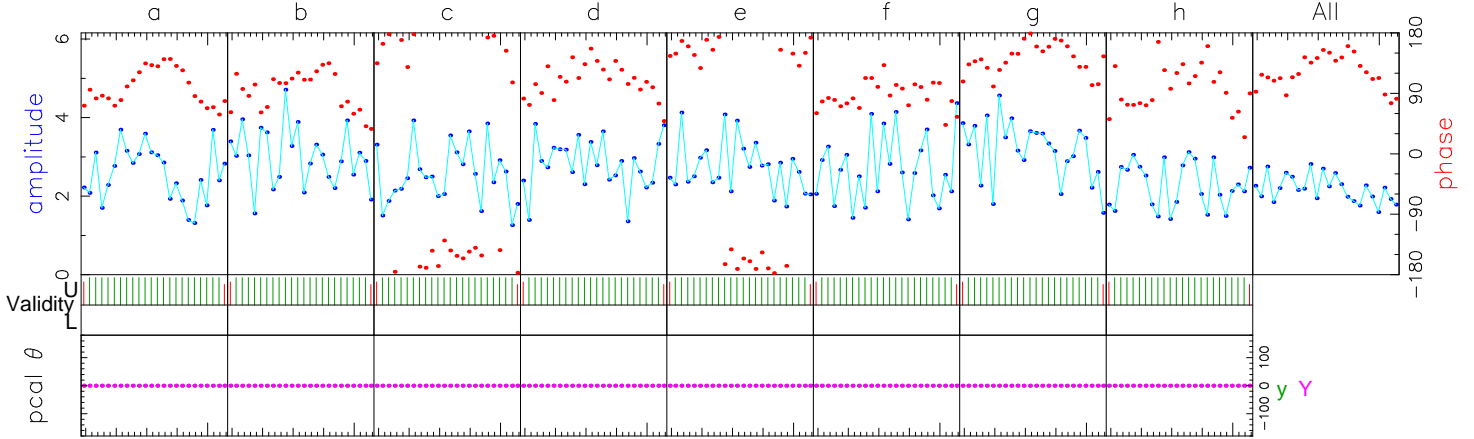


Fringe quality 5

SNR 38.6
Int time 47.177
Amp 2.054
Phase 122.3
PFD 0.0e+00
Delays (us)
SBD 0.002050
MBD 0.003247
Fringe rate (Hz)
0.006515
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Yr:day 16383
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

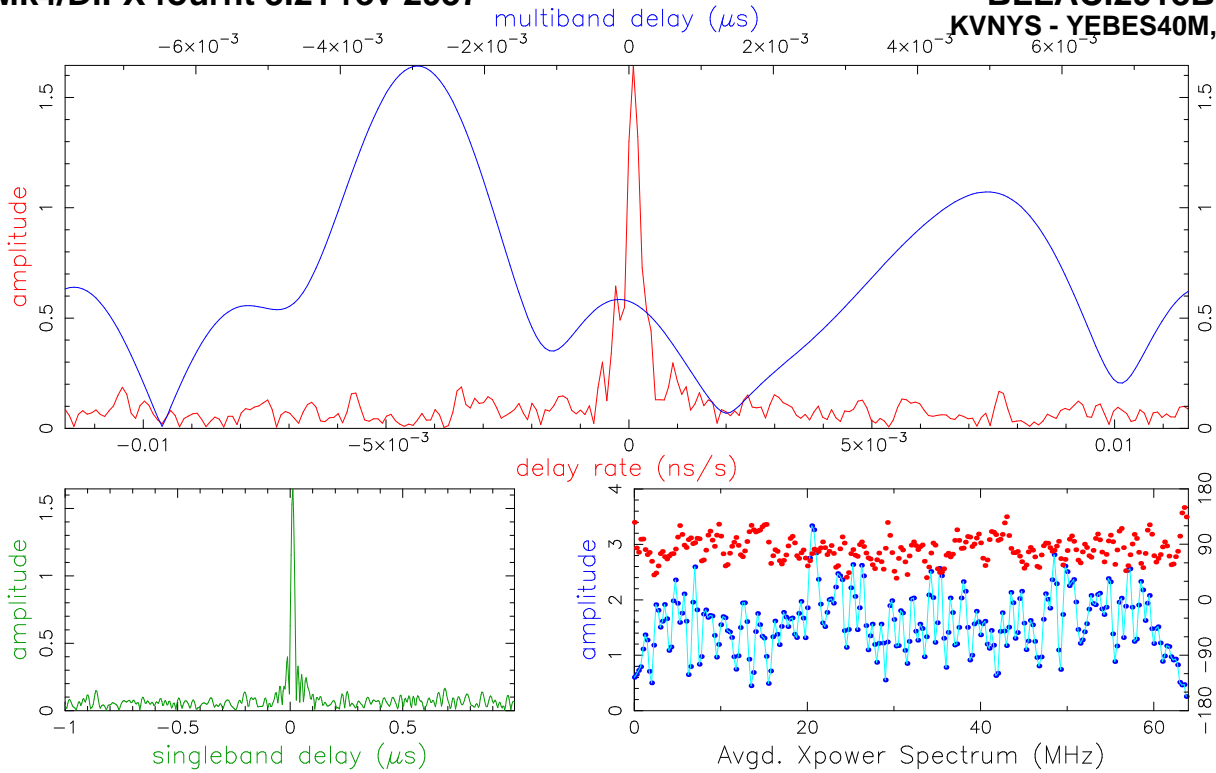


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	99.9	93.8	-171.6	109.8	172.9	88.2	141.6	96.3	Phase	122.3
	2.3	2.7	2.2	2.6	2.5	2.5	3.0	1.9	Ampl.	2.5
	259.1	257.5	256.9	256.9	256.9	256.8	257.1	256.5	Sbd box	257.5
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-4.07359134200E+03	Apriori delay (usec)	-4.07359458916E+03	Resid mbdelay (usec)	3.24715E-03	+/-	2.8E-05
Sband delay (usec)	-4.07359253866E+03	Apriori clock (usec)	2.1641441E+01	Resid sbdelay (usec)	2.05050E-03	+/-	2.2E-04
Phase delay (usec)	-4.07359458521E+03	Apriori clockrate (us/s)	1.3770000E-06	Resid phdelay (usec)	3.94452E-06	+/-	9.6E-08
Delay rate (us/s)	-1.59480807837E+00	Apriori rate (us/s)	-1.59480815401E+00	Resid rate (us/s)	7.56327E-08	+/-	3.5E-09
Total phase (deg)	-205.3	Apriori accel (us/s/s)	1.87187873242E-05	Resid phase (deg)	122.3	+/-	3.0

ph/seg (deg)	23.7	Theor.	7.3	Amplitude	2.054 +/- 0.053	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	17.4	Search (256X32)	1.989	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000		
ph/frq (deg)	42.1	Inc. seg. avg.	2.176	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008	
amp/frq (%)	24.5	Inc. frq. avg.	2.460	Sample rate (MSamp/s):	128	nlags: 256	t_cohere infinite	ion window (TEC)	0.00	0.00
y: az 299.9 el 35.2 pa 68.1		Y: az 68.1 el 48.4 pa -73.0		u, v (fr/asec)	12402.218 894.781			simultaneous interpolator		

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/yY...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/yY.W.34.2918BR

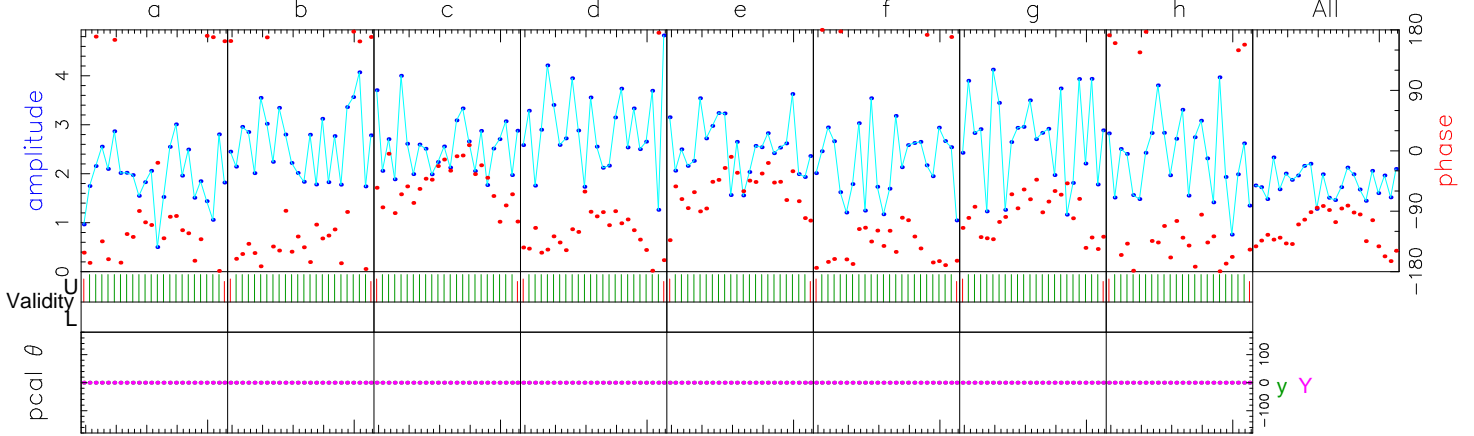


Fringe quality 5

SNR 30.9
Int time 47.177
Amp 1.646
Phase -116.0
PFD 0.0e+00
Delays (us)
SBD 0.011182
MBD -0.002940
Fringe rate (Hz) 0.006774
Ion TEC 0.000
Ref freq (MHz) 86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054518.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230413
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

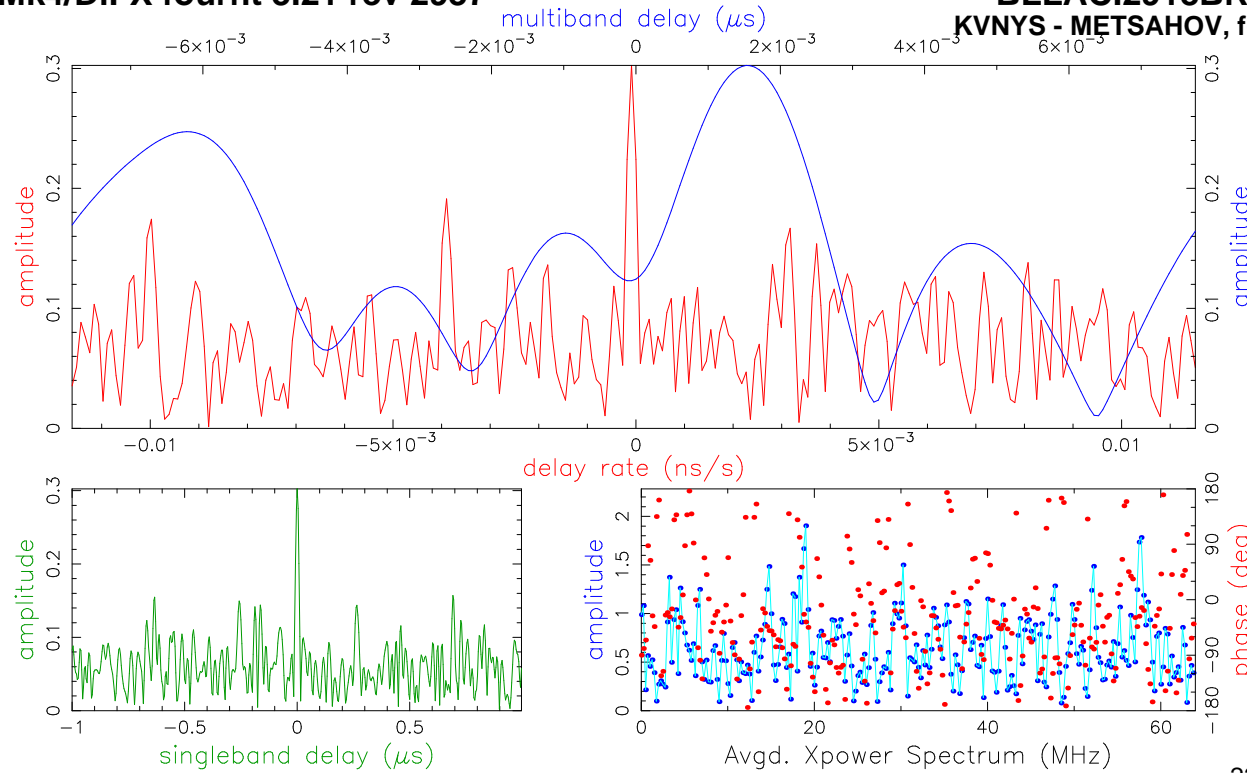
Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-142.2	-152.3	-47.0	-127.1	-57.1	-150.3	-93.9	-153.8	Phase	-116.0
	1.6	2.2	2.2	2.6	2.2	2.0	2.4	2.0	Ampl.	2.1
	261.6	259.2	259.6	259.5	258.9	259.2	259.6	259.4	Sbd box	259.9
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Y:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-4.07358190428E+03		Apriori delay (usec)		-4.07359458916E+03		Resid mbdelay (usec)		-2.94013E-03	+/- 3.5E-05
Sband delay (usec)	-4.07358340716E+03		Apriori clock (usec)		2.1641441E+01		Resid sbdelay (usec)		1.11820E-02	+/- 2.8E-04
Phase delay (usec)	-4.07359459290E+03		Apriori clockrate (us/s)		1.3770000E-06		Resid phdelay (usec)		-3.74192E-06	+/- 1.2E-07
Delay rate (us/s)	-1.59480807537E+00		Apriori rate (us/s)		-1.59480815401E+00		Resid rate (us/s)		7.86336E-08	+/- 4.4E-09
Total phase (deg)			Apriori accel (us/s/s)		1.87187873242E-05		Resid phase (deg)		-116.0	+/- 3.7

RMS Theor. Amplitude 1.646 +/- 0.053 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 25.5 9.1 Search (256X32) 1.636 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 19.9 15.8 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 47.3 5.2 Inc. seg. avg. 1.794 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 35.2 9.2 Inc. frq. avg. 2.142 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

y: az 299.9 el 35.2 pa 68.1 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 12402.218 894.781 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/yY...2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/yY.W.39.2918BR

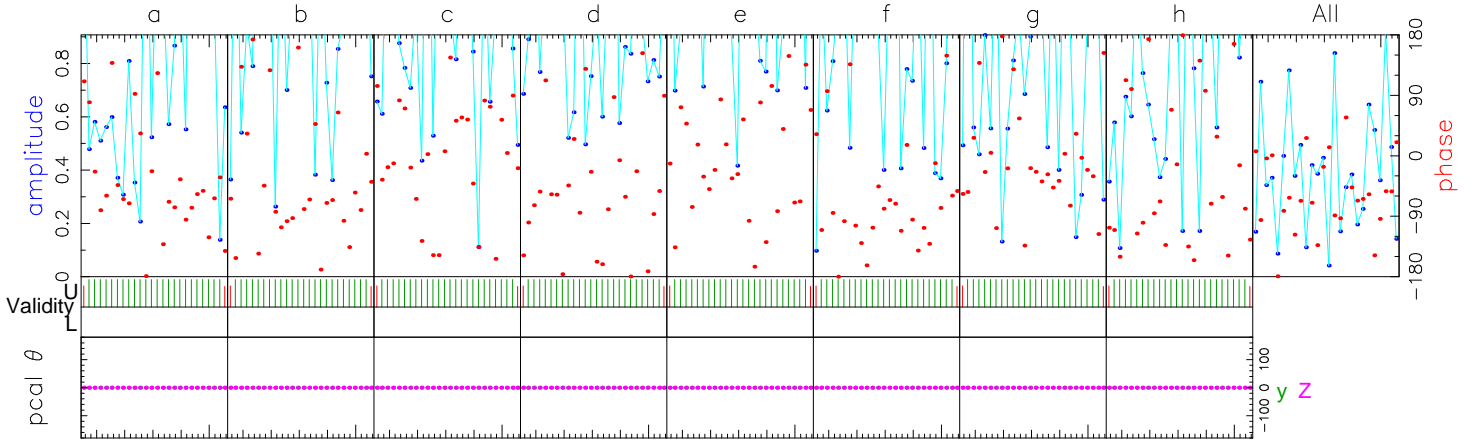


Fringe quality 0

SNR 5.9
Int time 51.030
Amp 0.303
Phase -66.9
PFD 1.0e-01
Delays (us)
SBD 0.000083
MBD 0.001548
Fringe rate (Hz)
-0.007621
Ion TEC 0.000
Ref freq (MHz)
86140.0000
AP (sec) 0.500

Exp. c221c
Exper # 16383
Yr:day 2022:093
Start 054514.50
Stop 054606.00
FRT 054831.00
Corr/FF/build
2022:171:230400
2022:171:230411
2021:041:141600
RA & Dec (J2000)
22h02m43.291370s
+42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



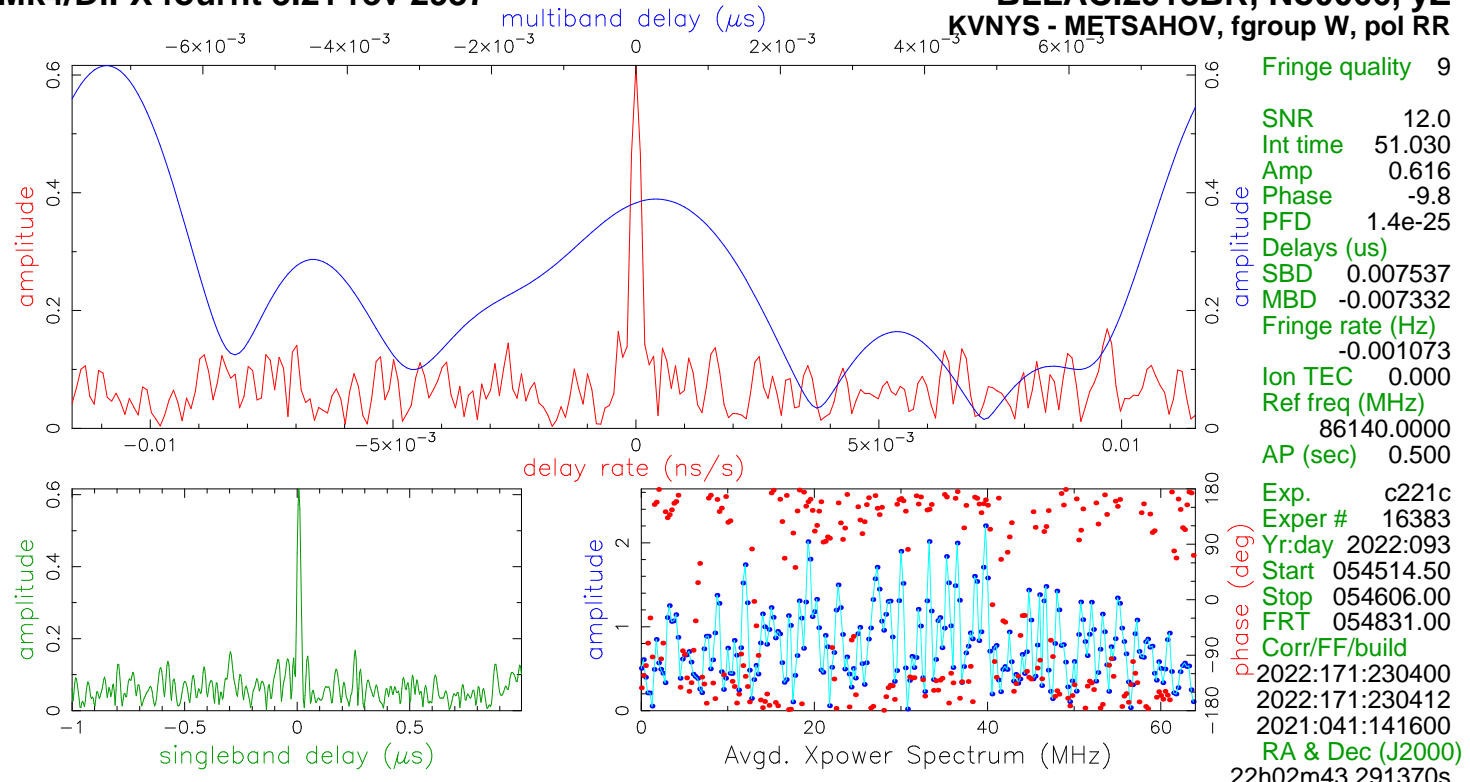
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-83.9	-104.3	26.4	-78.7	5.3	-100.2	-37.2	-117.9	Phase	-66.9
	0.4	0.5	0.4	0.4	0.4	0.7	0.6	0.3	Ampl.	0.4
	170.9	342.4	255.7	84.1	399.9	256.4	256.7	394.0	Sbd box	257.0
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd)	-7.32971851678E+03	Apriori delay (usec)	-7.32972006461E+03	Resid mbdelay (usec)	1.54783E-03	+/-	1.8E-04
Sband delay (usec)	-7.32971998161E+03	Apriori clock (usec)	1.4269981E+00	Resid sbdelay (usec)	8.30000E-05	+/-	1.5E-03
Phase delay (usec)	-7.32972006677E+03	Apriori clockrate (us/s)	1.3700000E-08	Resid phdelay (usec)	-2.15755E-06	+/-	6.3E-07
Delay rate (us/s)	-1.14383560265E+00	Apriori rate (us/s)	-1.14383551418E+00	Resid rate (us/s)	-8.84665E-08	+/-	2.1E-08
Total phase (deg)	-198.5	Apriori accel (us/s/s)	1.93127944996E-05	Resid phase (deg)	-66.9	+/-	19.4

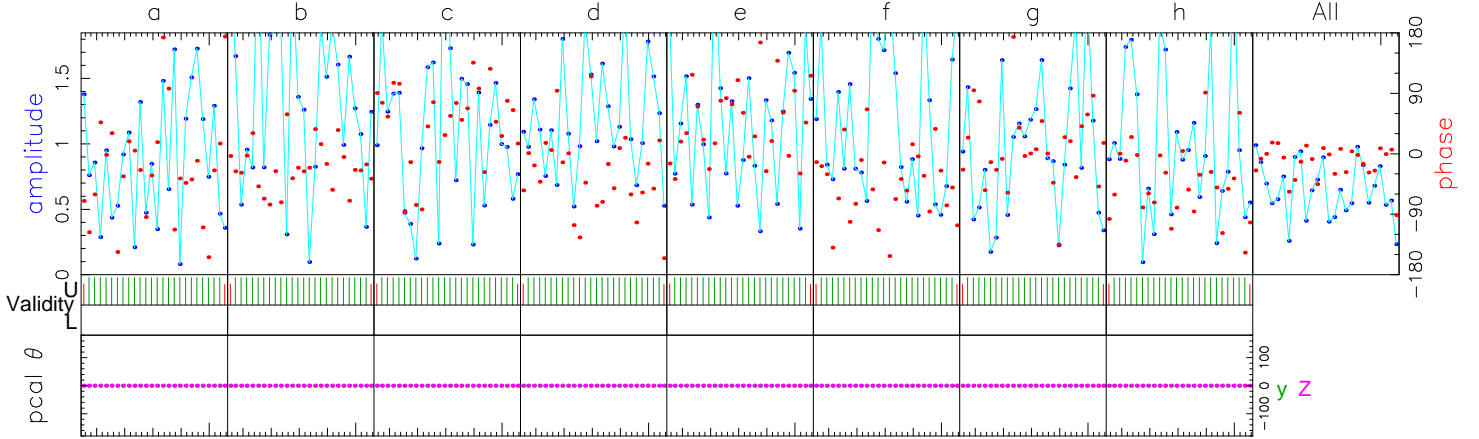
ph/seg (deg)	RMS 56.5	Theor. 49.4	Amplitude Search (256X32)	0.303 +/- 0.051	0.301	Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
amp/seg (%)	83.6	86.3	Interp.	0.000	0.000E+00, 0.000E+00 (us/s)	SampCntNorm: enabled	sb window (us) -1.000 1.000
ph/frq (deg)	58.2	27.4	Inc. seg. avg.	0.298	Sample rate(MISamp/s): 128	nlags: 256	mb window (us) -0.008 0.008
amp/frq (%)	59.0	47.9	Inc. frq. avg.	0.399	Data rate(Mb/s): 2048	t_cohere infinite	dr window (ns/s) -0.012 0.012

y: az 299.9 el 35.2 pa 68.1 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) 8905.864 -440.614 simultaneous interpolator

Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/yZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/yZ.W.20.2918BR

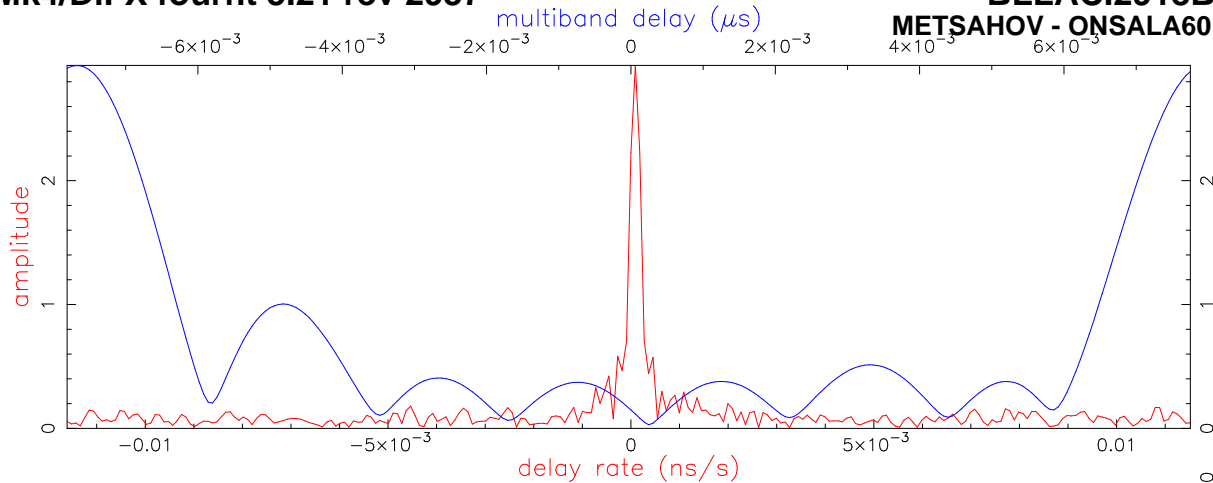


Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



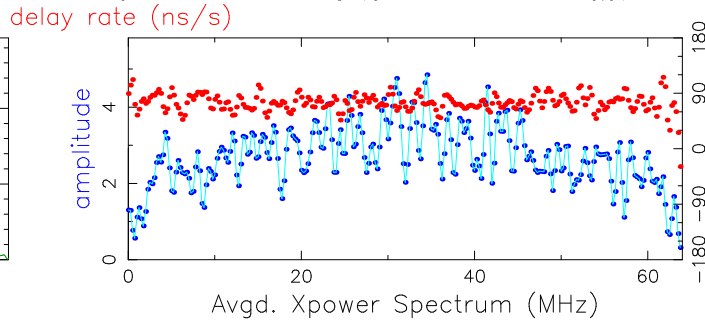
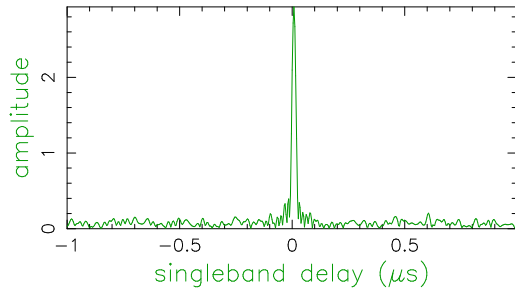
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-48.1	-27.2	60.4	-25.8	37.5	-55.3	14.3	-30.1	Phase	-9.8
	0.4	1.1	0.8	0.8	0.8	0.8	0.7	0.7	Ampl.	0.8
	261.3	259.0	259.4	258.4	258.3	257.5	257.8	259.8	Sbd box	258.9
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
y	0	0	0	0	0	0	0	0	PC freqs	
Z	0	0	0	0	0	0	0	0	PC freqs	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
y:Z	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
y	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Z	1000	1000	1000	1000	1000	1000	1000	1000		
y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	-7.32971177158E+03		Apriori delay (usec)	-7.32972006461E+03	Resid mbdelay (usec)	-7.33197E-03	+/-	9.0E-05		
Sband delay (usec)	-7.32971252736E+03		Apriori clock (usec)	1.4269981E+00	Resid sbdelay (usec)	7.53725E-03	+/-	7.2E-04		
Phase delay (usec)	-7.32972006493E+03		Apriori clockrate (us/s)	1.3700000E-08	Resid phdelay (usec)	-3.16897E-07	+/-	3.1E-07		
Delay rate (us/s)	-1.14383552663E+00		Apriori rate (us/s)	-1.14383551418E+00	Resid rate (us/s)	-1.24507E-08	+/-	1.0E-08		
Total phase (deg)		-141.4	Apriori accel (us/s/s)	1.93127944996E-05	Resid phase (deg)	-9.8	+/-	9.5		

ph/seg (deg) 23.7 24.3 Search (256X32) 0.613 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 33.6 42.4 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 45.2 13.5 Inc. seg. avg. 0.599 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 40.3 23.5 Inc. frq. avg. 0.764 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 y: az 299.9 el 35.2 pa 68.1 Z: az 122.3 el 65.0 pa -34.7 u,v (fr/asec) 8905.864 -440.614 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/yZ..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/yZ.W.28.2918BR



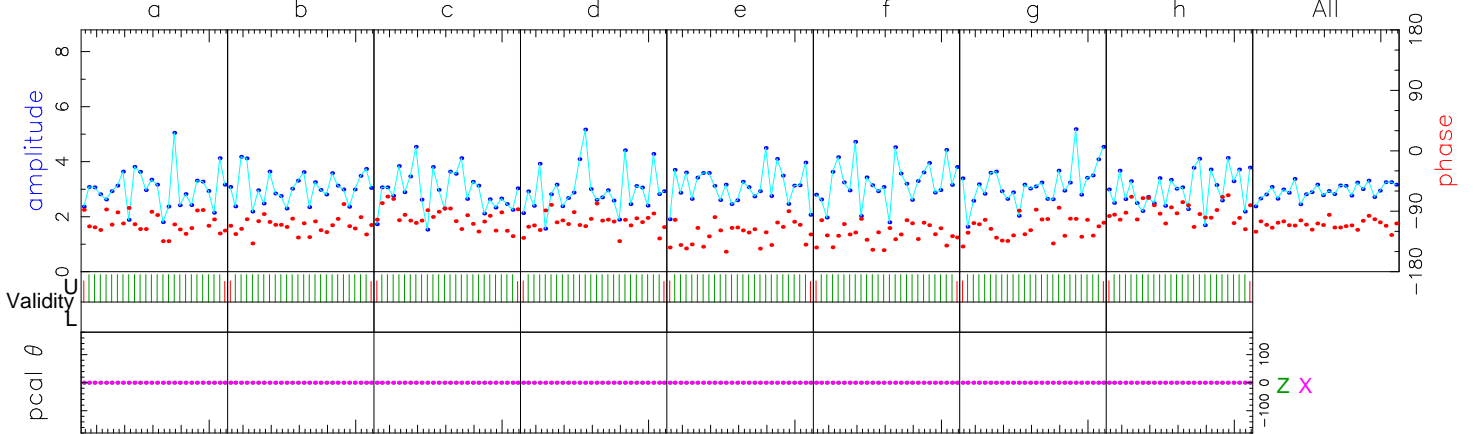
Fringe quality 8

SNR 57.3
 Int time 51.030
 Amp 2.932
 Phase -109.7
 PFD 0.0e+00
 Delays (us)
 SBD 0.007597
 MBD -0.007681
 Fringe rate (Hz)
 0.007807
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



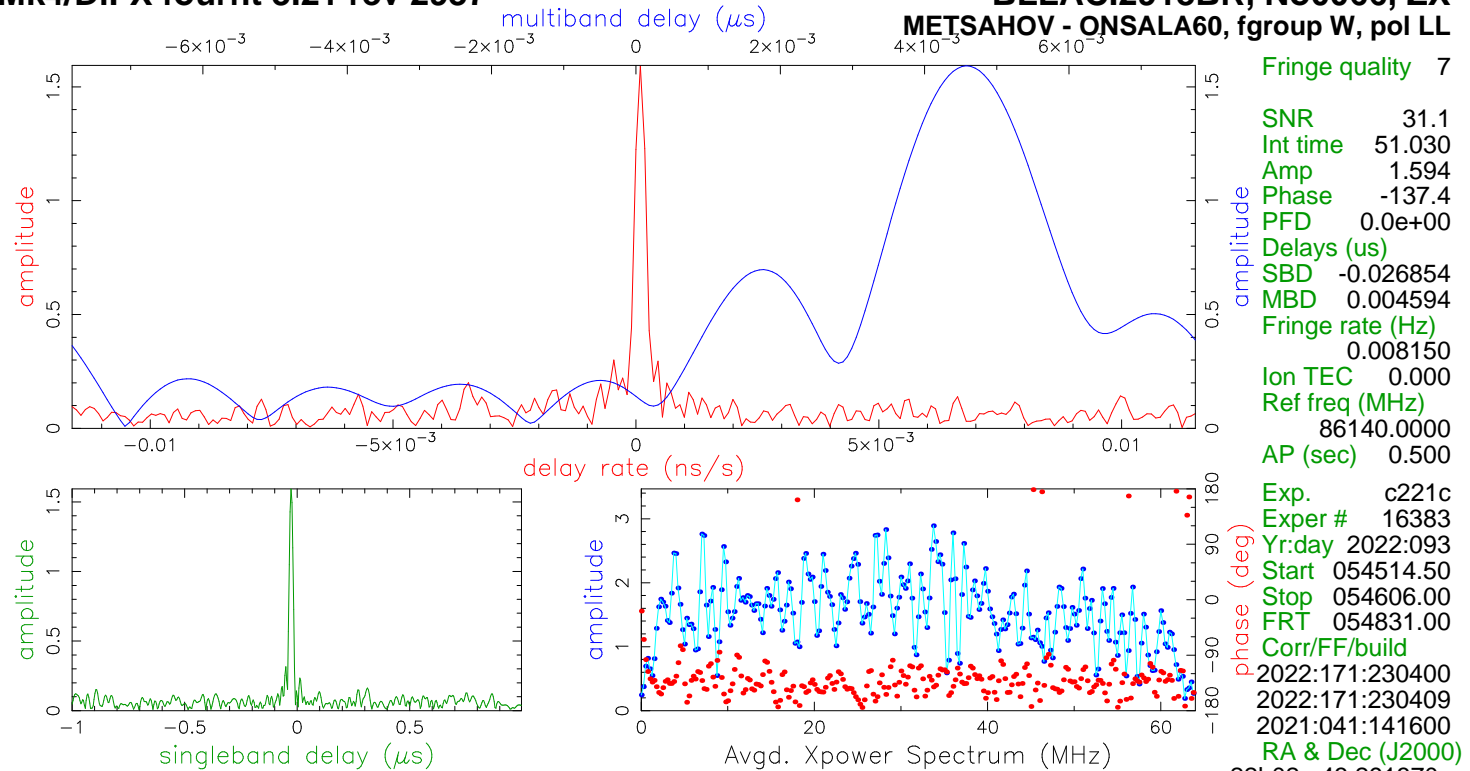
Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054514.50
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230411
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

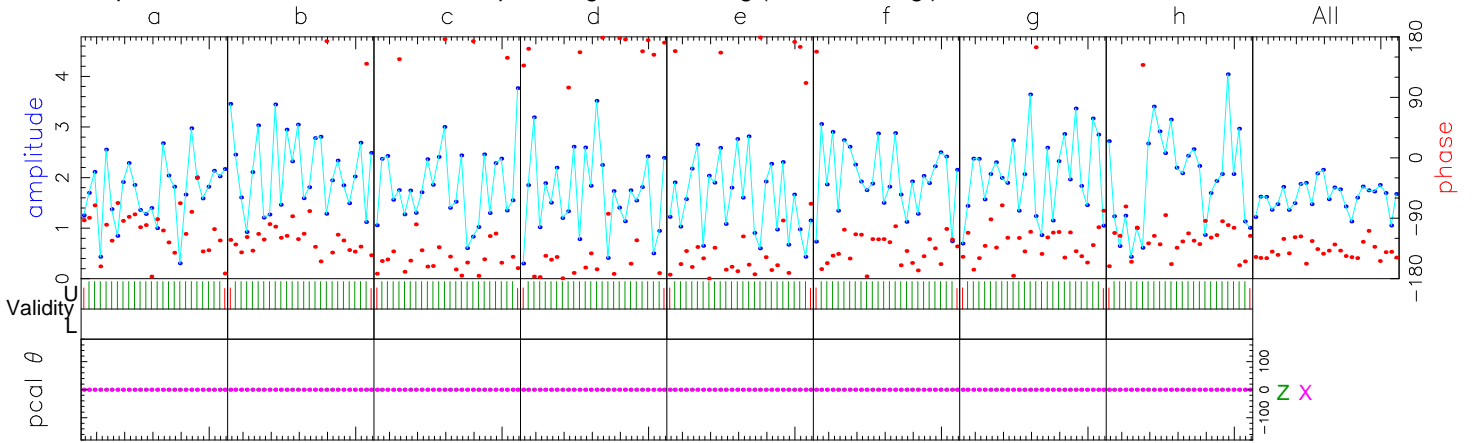


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-108.0	-110.8	-99.3	-105.7	-123.0	-124.4	-113.6	-90.4	Phase	-109.7
	2.9	3.0	2.9	2.9	3.0	3.2	3.0	2.9	Ampl.	3.0
	258.3	258.7	259.2	259.2	258.9	259.0	259.1	259.4	Sbd box	258.9
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
X	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.39680043640E+02		Apriori delay (usec)		7.39672099154E+02		Resid mbdelay (usec)		-7.68051E-03	+/- 1.9E-05
Sband delay (usec)	7.39679695904E+02		Apriori clock (usec)		-7.3136093E+01		Resid sbdelay (usec)		7.59675E-03	+/- 1.5E-04
Phase delay (usec)	7.39672095617E+02		Apriori clockrate (us/s)		-5.8970000E-07		Resid phdelay (usec)		-3.53677E-06	+/- 6.5E-08
Delay rate (us/s)	-1.33905117428E-01		Apriori rate (us/s)		-1.33905208060E-01		Resid rate (us/s)		9.06315E-08	+/- 2.2E-09
Total phase (deg)	113.9		Apriori accel (us/s/s)		-2.37563789300E-06		Resid phase (deg)		-109.7	+/- 2.0

ph/seg (deg) 6.6 5.1 Search (256X32) 2.912 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 amp/seg (%) 8.6 8.9 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 ph/frq (deg) 12.3 2.8 Inc. seg. avg. 2.939 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 amp/frq (%) 3.5 4.9 Inc. frq. avg. 2.979 Sample rate(MISamp/s): 128 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite dr window (ns/s) -0.012 0.012
 Z: az 122.3 el 65.0 pa -34.7 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 1032.920 -18.076 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/ZX..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/ZX.W.15.2918BR



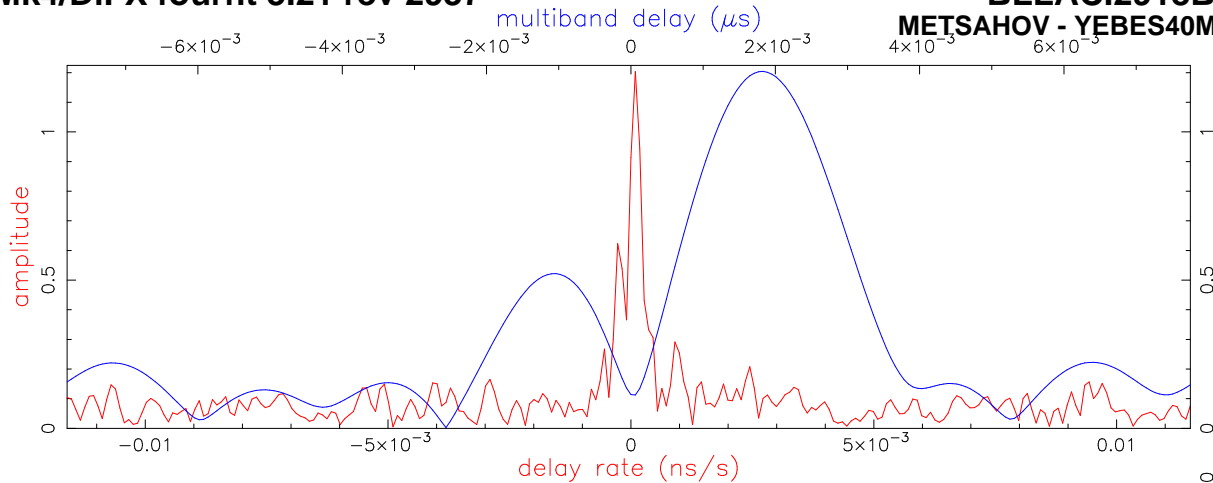
Amp. and Phase vs. time for each freq., 26 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-105.5	-125.3	-156.9	-172.5	-159.9	-136.0	-129.1	-122.2	Phase	-137.4
	1.5	1.9	1.7	1.6	1.4	1.9	1.9	1.8	Ampl.	1.7
	250.5	249.5	249.8	249.9	250.7	250.2	250.5	250.8	Sbd box	250.1
U/L	103/0	103/0	103/0	103/0	103/0	103/0	103/0	103/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
X	0	0	0	0	0	0	0	0	PC freqs	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:X	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
X	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
X	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec)(sbd)	7.39645443578E+02		Apriori delay (usec)		7.39672099154E+02		Resid mbdelay (usec)		4.59442E-03	+/- 3.5E-05
Sband delay (usec)	7.39645244904E+02		Apriori clock (usec)		-7.3136093E+01		Resid sbdelay (usec)		-2.68543E-02	+/- 2.8E-04
Phase delay (usec)	7.39672094723E+02		Apriori clockrate (us/s)		-5.8970000E-07		Resid phdelay (usec)		-4.43046E-06	+/- 1.2E-07
Delay rate (us/s)	-1.33905113446E-01		Apriori rate (us/s)		-1.33905208060E-01		Resid rate (us/s)		9.46134E-08	+/- 4.0E-09
Total phase (deg)	86.2		Apriori accel (us/s/s)		-2.37563789300E-06		Resid phase (deg)		-137.4	+/- 3.7

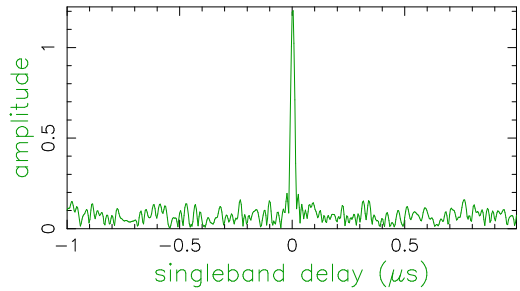
RMS Theor. Amplitude 1.594 +/- 0.051 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 12.3 9.4 Search (256X32) 1.570 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 16.7 16.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 24.4 5.2 Inc. seg. avg. 1.609 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 13.7 9.1 Inc. frq. avg. 1.689 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 122.3 el 65.0 pa -34.7 X: az 101.9 el 60.0 pa -45.2 u,v (fr/asec) 1032.920 -18.076 simultaneous interpolator

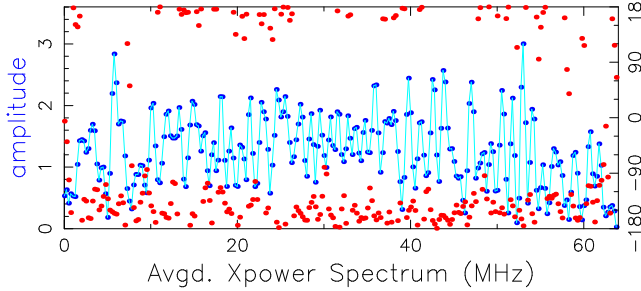


Fringe quality 9

SNR 23.0
 Int time 47.177
 Amp 1.225
 Phase -153.3
 PFD 0.0e+00
 Delays (us)
 SBD 0.002105
 MBD 0.001780
 Fringe rate (Hz)
 0.009189
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500

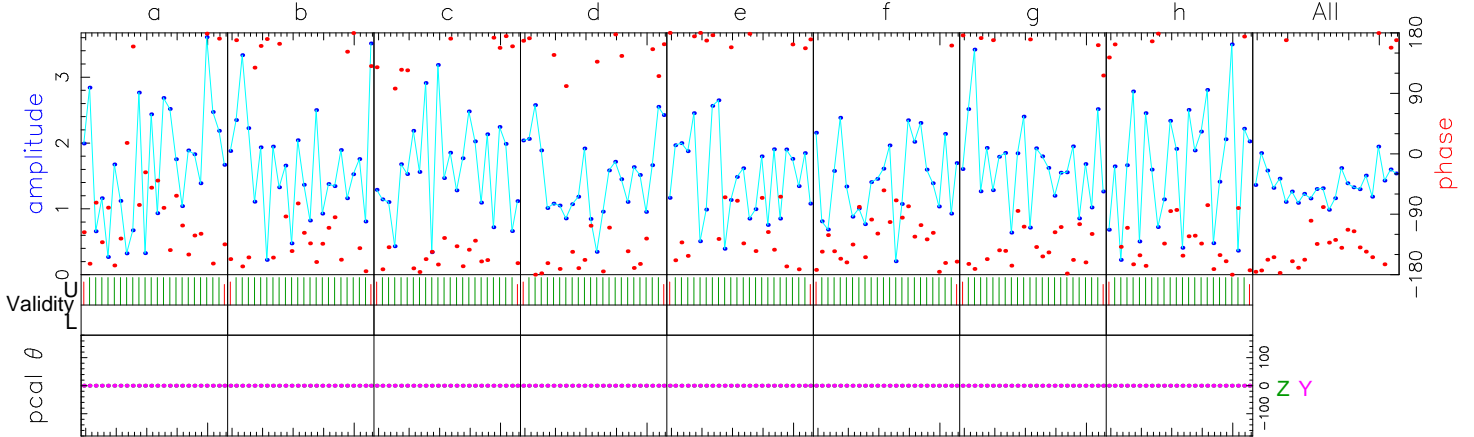


delay rate (ns/s)



Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054518.50
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230410
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec

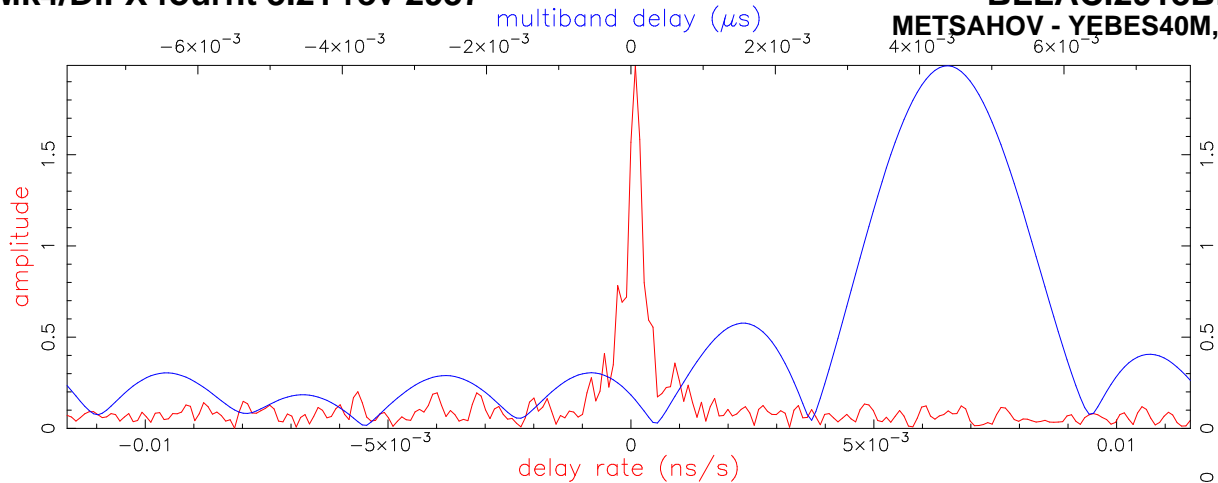


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-127.3	-160.2	-171.2	179.7	-156.1	-127.6	-154.1	-145.8	Phase	-153.3
	1.2	1.2	1.4	1.2	1.2	1.4	1.4	1.3	Ampl.	1.3
	257.7	257.7	257.4	257.4	257.9	257.1	257.8	256.2	Sbd box	257.5
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
Y	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec)(sbd) 3.25612725548E+03 Apriori delay (usec) 3.25612547545E+03 Resid mbdelay (usec) 1.78003E-03 +/- 4.7E-05
 Sband delay (usec) 3.25612757995E+03 Apriori clock (usec) 2.0214443E+01 Resid sbdelay (usec) 2.10450E-03 +/- 3.7E-04
 Phase delay (usec) 3.25612547051E+03 Apriori clockrate (us/s) 1.3633000E-06 Resid phdelay (usec) -4.94495E-06 +/- 1.6E-07
 Delay rate (us/s) -4.50972533142E-01 Apriori rate (us/s) -4.50972639823E-01 Resid rate (us/s) 1.06681E-07 +/- 5.9E-09
 Total phase (deg) 10.6 Apriori accel (us/s/s) -5.94007175393E-07 Resid phase (deg) -153.3 +/- 5.0

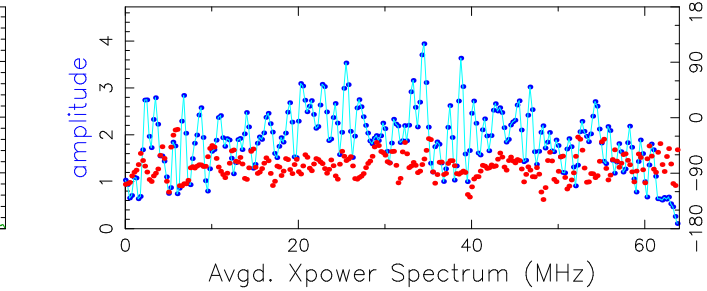
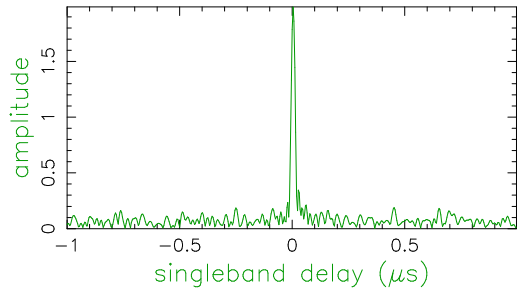
RMS Theor. Amplitude 1.225 +/- 0.053 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 29.7 12.2 Search (256X32) 1.180 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 22.3 21.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 20.4 7.0 Inc. seg. avg. 1.344 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 7.9 12.3 Inc. frq. avg. 1.251 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 122.3 el 65.0 pa -34.7 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 3496.354 1335.395 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/ZY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/ZY.W.12.2918BR



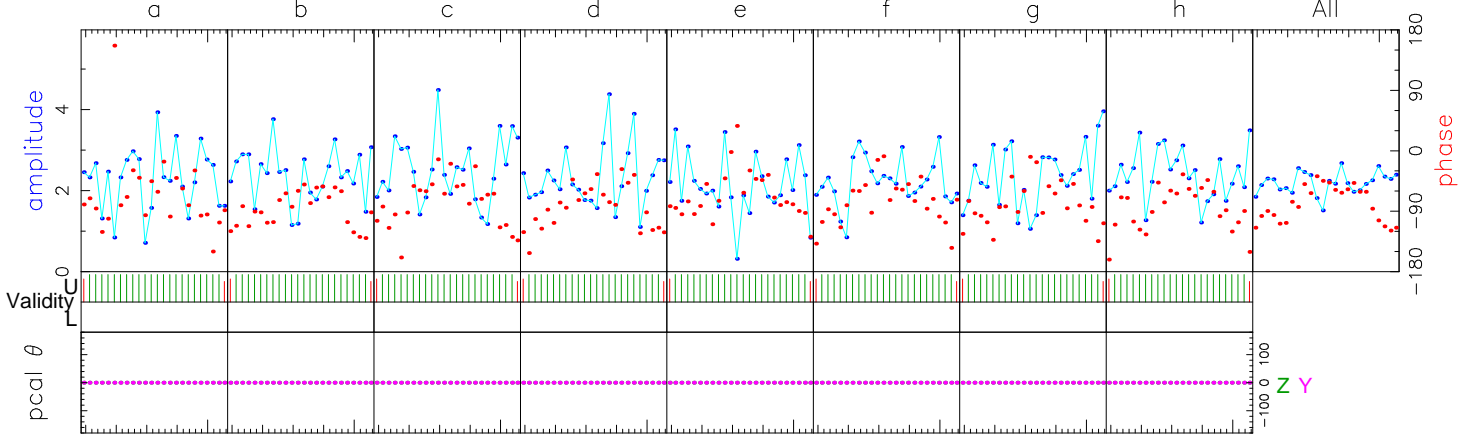
Fringe quality 8

SNR 37.4
 Int time 47.177
 Amp 1.989
 Phase -79.1
 PFD 0.0e+00
 Delays (us)
 SBD 0.004374
 MBD 0.004394
 Fringe rate (Hz)
 0.008972
 Ion TEC 0.000
 Ref freq (MHz)
 86140.0000
 AP (sec) 0.500



Exp. c221c
 Exper # 16383
 Yr:day 2022:093
 Start 054518.50
 Stop 054606.00
 FRT 054831.00
 Corr/FF/build
 2022:171:230400
 2022:171:230412
 2021:041:141600
 RA & Dec (J2000)
 22h02m43.291370s
 +42°16'39.979885"

Amp. and Phase vs. time for each freq., 24 segs, 4 APs / seg (2.00 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-73.2	-87.8	-79.1	-81.3	-69.3	-73.4	-83.1	-84.0	Phase	-79.1
	1.9	2.2	2.0	2.0	1.9	1.9	2.0	2.1	Ampl.	2.0
	258.6	257.7	258.2	258.5	257.9	257.9	258.4	257.7	Sbd box	258.1
U/L	95/0	95/0	95/0	95/0	95/0	95/0	95/0	95/0	APs used	
Z	0	0	0	0	0	0	0	0	PC freqs	
Y	0	0	0	0	0	0	0	0	PC freqs	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
Z:Y	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
Z	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
Y	1000	1000	1000	1000	1000	1000	1000	1000		
Z	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
Y	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	

Group delay (usec)(sbd) 3.25612986979E+03 Apriori delay (usec) 3.25612547545E+03 Resid mbdelay (usec) 4.39434E-03 +/- 2.9E-05
 Sband delay (usec) 3.25612984970E+03 Apriori clock (usec) 2.0214443E+01 Resid sbdelay (usec) 4.37425E-03 +/- 2.3E-04
 Phase delay (usec) 3.25612547290E+03 Apriori clockrate (us/s) 1.3633000E-06 Resid phdelay (usec) -2.55177E-06 +/- 9.9E-08
 Delay rate (us/s) -4.50972535672E-01 Apriori rate (us/s) -4.50972639823E-01 Resid rate (us/s) 1.04150E-07 +/- 3.6E-09
 Total phase (deg) 84.8 Apriori accel (us/s/s) -5.94007175393E-07 Resid phase (deg) -79.1 +/- 3.1

RMS Theor. Amplitude 1.989 +/- 0.053 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5
 ph/seg (deg) 25.7 7.5 Search (256X32) 1.976 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000
 amp/seg (%) 16.8 13.1 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008
 ph/frq (deg) 6.9 4.3 Inc. seg. avg. 2.176 Sample rate(MISamp/s): 128 dr window (ns/s) -0.012 0.012
 amp/frq (%) 4.0 7.6 Inc. frq. avg. 1.992 Data rate(Mb/s): 2048 nlags: 256 t_cohere infinite ion window (TEC) 0.00 0.00

Z: az 122.3 el 65.0 pa -34.7 Y: az 68.1 el 48.4 pa -73.0 u,v (fr/asec) 3496.354 1335.395 simultaneous interpolator
 Control file: cf_1234_gmva Input file: /Exps/c221c/FRINGE/3mm/1234/No0066/ZY..2918BR Output file: /Exps/c221c/FRINGE/3mm/1234/No0066/ZY.W.30.2918BR